

QY 61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105
 |||||
 Db 61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

RESULT 2

AAB18453
 ID AAB18453 standard; protein; 105 AA.

XX AC AAB18453;

DT 15-JAN-2001 (first entry)

XX A human TANGO 266 polypeptide.

XX TANGO 266; TANGO 216; TANGO 261; TANGO 262; TANGO 267;
 KW cellular proliferation; cellular differentiation; cellular adhesion;
 KW von Willebrand factor-associated disorder; cell trafficking; cancer;
 KW hematopoietic associated disease; atelectasis; pulmonary congestion;
 KW oedema; emphysema; chronic bronchitis; bronchial asthma; bronchiectasis;
 KW intestinal disorder; spleen associated disease; renal disorder;
 KW cardiovascular disorder; ischemic heart disease; hydrocephalus;
 KW brain herniation; iatrogenic disease; inflammation; meningitis;
 KW Alzheimer's Disease; cerebral toxoplasmosis; Parkinson's disease;
 KW multiple sclerosis; hydrocephalus; encephalitis; hepatic disorder.

XX Homo sapiens.

OS Key Location/Qualifiers

FT Peptide 1..19

FT /note= "signal sequence"

FT Protein 20..106

FT /note= "mature protein"

XX WO200052022-A1.

XX 08-SEP-2000.

XX 01-MAR-2000; 2000WO-US005226.

XX 01-MAR-1999; 99US-0122458P.

XX (MILL-) MILLENNIUM PHARM INC.

XX Barnes TM, Holtzman DA, Sharp JD, Fraser CC;

XX WPI; 2000-579269/54.

XX N-PSDB; AAA75155.

XX Novel human and murine secreted proteins designated TANGO 216, 261, 262,
 PT 266 and 267 useful as modulating agents of cellular processes, e.g. for
 PT treating cancer.

XX Claim 8; Fig 14; 175pp; English.

XX The present sequence represents a human TANGO 266 polypeptide. The
 CC specification also describes TANGO 262, TANGO 216, TANGO 261, and TANGO
 CC 267. The TANGO polypeptides can be used to modulate cellular
 CC proliferation, modulate cellular differentiation and/or modulate cellular
 CC adhesion. The proteins can be used to treat any von Willebrand factor-
 CC associated disorder, regulate extracellular matrix structuring, cellular
 CC adhesion, and cell trafficking and/or migration, modulate cellular
 CC interactions, modulate cell adhesion in proliferative disorders, such as
 CC cancer, modulate the proliferation, differentiation, and/or function of
 CC cells that appear in the bone marrow, and leukocytes, treat bone marrow,
 CC blood and hematopoietic associated diseases and disorders, atelectasis,
 CC pulmonary congestion or oedema, emphysema, chronic bronchitis, bronchial
 CC asthma and bronchiectasis, intestinal disorders, spleen associated
 CC diseases, modulate renal disorders, treat cardiovascular disorders such
 CC as ischemic heart disease, modulate the proliferation, differentiation,
 CC and/or function of bone and cartilage cells and to treat bone and/or
 CC cartilage associated diseases or disorder. They may also be used to treat

CC disorders associated with the ovaries, cerebral oedema, hydrocephalus,
 CC brain herniations, iatrogenic disease, inflammations, bacterial and viral
 CC meningitis, Alzheimer's Disease, cerebral toxoplasmosis, Parkinson's
 CC disease, multiple sclerosis, brain cancers, hydrocephalus and
 CC encephalitis, and treat hepatic disorders

XX SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 3; Length 105;

Best Local Similarity 100.0%; Pred. No. 3.3e-54;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60

Db 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60

QY 61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRPDPGRYRCMDLKNINF 105

Db 61 HPGSHKVPFFRRKRKHHTCPCLPNLLCSRPDPDPGRYRCMDLKNINF 105

RESULT 3

AAB70148

ID AAB70148 standard; protein; 105 AA.

XX AC AAB70148;

XX 29-MAY-2001 (first entry)

XX Human G protein-coupled receptor protein-related sequence #4.

XX Human; G protein-coupled receptor protein; nootropic; neuroprotective;
 KW hypotensive; orexigenic; anti-allergic; anti-anginal; antimicrobial;
 KW antibacterial; gene therapy; Alzheimer's disease; hypertension; anorexia;
 KW allergy; angina pectoris; infection; MRSA;
 KW multiple resistant Staphylococcus aureus.

XX Homo sapiens.

XX WO200116309-A1.

XX 08-MAR-2001.

XX 24-AUG-2000; 2000WO-JP005685.

XX 27-AUG-1999; 99JP-00241531.

XX 18-JUL-2000; 2000JP-00217474.

XX (TAKE) TAKEDA CHEM IND LTD.

XX Watanabe T, Terao Y, Shintani Y;

XX WPI; 2001-226684/23.

XX New human brain-originated guanosine triphosphate protein-coupled
 PT receptor protein, its salt and encoded gene, useful in (gene) diagnosis
 PT and development of preventives and remedies for Alzheimer's disease,
 PT hypertension and anorexia.

XX Example 4; Page 113; 119pp; Japanese.

XX The present sequence is provided in a specification relating to a protein
 CC or its salt with an amino acid sequence identical or substantially
 CC similar to a fully defined sequence of 393 amino acids as given in the
 CC specification. The protein is useful in gene diagnosis and development of
 CC preventives and remedies for diseases associated with dysfunction of the
 CC protein, e.g. Alzheimer's disease, hypertension, anorexia, allergy,
 CC angina pectoris and infections (e.g. multiple resistant Staphylococcus
 CC aureus). The proteins and DNA encoding the proteins are also useful for
 CC the treatment of these diseases by gene therapy

XX SQ Sequence 105 AA;

Query Match	100.0%	Score 589;	DB 4;	Length 105;
Best Local Similarity	100.0%	Pred. No. 3.3e-54;		
Matches 105;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MRGATRVISIMLLLVTSDCAVITGACSRDVOCGAGTCCATSLWLRLGRLMCTPLGREGSEC	60	
Db	1	MRGATRVISIMLLLVTSDCAVITGACSRDVOCGAGTCCATSLWLRLGRLMCTPLGREGSEC	60	
Qy	61	HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFDPGRYRCSMDLKNINF	105	
Db	61	HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFDPGRYRCSMDLKNINF	105	
RESULT 4				
AAB68427	ID AAB68427 standard; protein; 105 AA.			
XX	AC	AAB68427;		
XX	DT	23-JUL-2001 (first entry)		
XX	XX			
DE	DE	Amino acid sequence of a human Zven2 polypeptide.		
XX	XX			
KW	KW	Zven1; 3p21.1; 3p14.3; Zven2; small cell lung cancer; wound healing;		
KW	KW	antitumor; antiinflammatory; necrosis; tissue growth; digestive enzyme;		
KW	KW	cellular differentiation; gastrointestinal cell contractility;		
KW	KW	gastrointestinal motility; inflammation; hypermotility; diarrhoea;		
KW	KW	Crohn's disease.		
XX	OS	Homo sapiens.		
XX	XX			
PN	PN	WO200136465-A2.		
XX	XX			
PD	PD	25-MAY-2001.		
XX	XX			
PF	PF	14-NOV-2000; 2000WO-US031278.		
XX	XX			
PR	PR	16-NOV-1999; 99US-00442164.		
PR	PR	25-FEB-2000; 2000US-00511879.		
PR	PR	19-APR-2000; 2000US-00552203.		
PR	PR	07-JUN-2000; 2000US-0210332P.		
XX	XX	(ZYMO) ZYMOGENETICS INC.		
PA	PA			
XX	XX			
PI	PI	Sheppard PO, Bishop PD, Whitmore TE, Thompson PP;		
XX	XX			
DR	DR	WPI; 2001-355611/37.		
DR	DR	N-PSDB; AAF85427.		
XX	XX			
PT	PT	Novel isolated Zven polypeptide useful for inhibiting proliferation of		
PT	PT	tumor cells, for treating small cell cancer of lung, to promote wound		
PT	PT	healing, and for treating Crohn's disease and diarrhea.		
XX	XX			
PS	PS	Claim 27; Page 4; 9pp; English.		
XX	XX			
CC	CC	The present sequence represents a human Zven2 polypeptide. The		
CC	CC	specification also describes Zven1. The Zven1 gene is present on		
CC	CC	chromosome 3p21.1-3p14.3. The specification also describes Zven2. Zven		
CC	CC	polynucleotides and polypeptides are useful in veterinary and human		
CC	CC	therapeutics, for treating small cell cancer of the lung, to promote		
CC	CC	wound healing, to prevent or to treat an adverse reaction of the skin to		
CC	CC	a skin-sensitizing agent or a skin-irritating agent, to stimulate the		
CC	CC	immune system of an immunocompromised individual, as antitumor agents,		
CC	CC	as antiinflammatory agents, as agents to regulate regeneration or		
CC	CC	remodeling of tissue, as agents to modulate necrosis or tissue growth		
CC	CC	developmental arrest, to inhibit proliferation of tumor cells, cellular		
CC	CC	differentiation and necrosis, to treat disorders associated with		
CC	CC	gastrointestinal cell contractility, secretion of digestive enzymes and		
CC	CC	acids, gastrointestinal motility, recruitment of digestive enzymes,		
CC	CC	inflammation, and conditions associated with hypermotility such as		
CC	CC	diarrhoea and Crohn's disease		
XX	XX			
SQ	SQ	Sequence 105 AA;		

```
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
XX
XX (GETH ) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI: 2001-408281/43.
XX N-PSDB; AAS21478.
XX
XX Isolated , secretory and transmembrane PRO polypeptide used to detect
PT other PRO polypeptides, link bioactive molecules to cells expressing PRO
PT polypeptides, and detect the presence of mammalian tumors e.g. lung,
PT breast, prostate, cervical.
XX
XX Claim 12; Fig 470; 813pp; English.
XX
XX AAU12172-AAU12446 represent novel human secretory and transmembrane PRO
CC polypeptides. The PRO polypeptides are useful to detect other PRO
CC polypeptides, to link bioactive molecules to cells expressing PRO
CC polypeptides, to modulate biological activities of cells expressing PRO
CC polypeptides, and to detect the presence of mammalian lung, colon,
CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
CC polypeptide expression in a cell sample to that in a control sample. Some
CC of the 275 sequences are also useful to stimulate the release of tumour
CC necrosis factor-alpha (TNF-alpha) from human blood, the proliferation or
CC differentiation of chondrocytes, the proliferation or gene expression in
CC pericyte cells, the release of proteoglycans from cartilage, the
CC proliferation of inner ear utricular supporting cells or of T-
CC lymphocytes, the release of a cytokine from peripheral blood monocytes
CC (PBMCs), or the proliferation of endothelial cells. Some of the PRO
CC polypeptides may modulate glucose or free fatty acid uptake by skeletal
CC muscle cells or by adipocytes; or inhibit binding of A-peptide to factor
CC VIIA. The PRO polypeptides can be used in assays to identify molecules
CC involved in binding interactions. The polynucleotides encoding PRO
CC polypeptides can be used to generate probes, antisense RNA/DNA,
CC transgenic or knock out animals and can be used in gene therapy
XX
XX Sequence 105 AA;
XX
XX Query Match 100.0%; Score 589; DB 4; Length 105;
XX Best Local Similarity 100.0%; Pred. No. 3.3e-54;
XX Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy 1 MRGATRVSIMLLVTSDCAVITGACERDVQCGAGTCCALSLMLRGLRMTPLGRGEGEC 60
Db |||||
Db 1 MRGATRVSIMLLVTSDCAVITGACERDVQCGAGTCCALSLMLRGLRMTPLGRGEGEC 60
Qy 61 HPGSHKVPFPRKRKHHTCPCLPNLLCSRFDPGRYRCSDMLKKNF 105
Db |||||
Db 61 HPGSHKVPFPRKRKHHTCPCLPNLLCSRFDPGRYRCSDMLKKNF 105
XX
XX RESULT 6
XX AAB53096
XX ID AAB53096 standard; protein; 105 AA.
XX
XX AC AAB53096;
XX
XX 28-FEB-2001 (first entry)
XX
XX Human angiogenesis-associated protein PRO1186, SEQ ID NO:165.
XX
XX Human; angiogenesis-associated protein; PRO; endothelial cell growth;
KW cardiac hypertrophy; cardiovascular disorder; endothelial disorder;
KW angiogenic disorder; atherosclerosis; osteoporosis; hypertension;
KW myocardial infarction; diabetic retinopathy; rheumatoid arthritis;
KW Crohn's disease; psoriasis; endometriosis; ulcer; wound healing; cancer;
KW Alzheimer's disease; Huntington's disease; stroke; drug screening;
KW gene therapy; transgenic animal.
XX
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XX OS Homo sapiens.
XX PN WO200053753-A2.
XX
XX 14-SEP-2000.
XX
XX 05-JAN-2000; 2000WO-US000219.
XX
XX 08-MAR-1999; 99WO-US005028.
XX 12-MAR-1999; 99US-0123957P.
XX 14-MAY-1999; 99US-0134287P.
XX 02-JUN-1999; 99WO-US012252.
XX 23-JUN-1999; 99US-0141037P.
XX 20-JUL-1999; 99US-0144758P.
XX 26-JUL-1999; 99US-0145698P.
XX 01-SEP-1999; 99WO-US020111.
XX 08-SEP-1999; 99WO-US020594.
XX 15-SEP-1999; 99WO-US021090.
XX 15-SEP-1999; 99WO-US021547.
XX 05-OCT-1999; 99WO-US023089.
XX 30-NOV-1999; 99WO-US028313.
XX 02-DEC-1999; 99WO-US028409.
XX 02-DEC-1999; 99WO-US028564.
XX 02-DEC-1999; 99WO-US028565.
XX
XX (GETH ) GENENTECH INC.
XX Ashkenazi AJ, Baker KP, Ferrara N, Gerber H, Goddard A;
PI Godowski PJ, Gurney AL, Hillan KJ, Kuo SS, Mark MR, Marsters SA;
PI Paoni NF, Pitti RM, Watanabe CK, Williams PM, Wood WI;
XX
XX WPI: 2001-090793/10.
XX N-PSDB; AAC97496.
XX
XX New isolated nucleic acid for producing a PRO polypeptide, analyzing
PT genetic disorders and treating cardiovascular, endothelial or angiogenic
PT disorders, such as atherosclerosis, wounds or cancer.
XX
XX Claim 69; Fig 66; 293pp; English.
XX
XX The invention relates to novel human angiogenesis-associated proteins
CC designated PRO proteins (AAB53064-B53097), and to nucleic acids encoding
CC PRO proteins. The invention also relates to vectors and host cells
CC comprising a PRO nucleic acid, the recombinant production of a PRO
CC protein, PRO antibodies specific for a PRO protein, fusion proteins
CC comprising a PRO protein, agonists or antagonists of a PRO protein, and
CC compounds which inhibit the expression of a PRO gene. The invention
CC additionally encompasses methods of identifying modulators of PRO
CC expression or activity; diagnosing a cardiovascular, endothelial or
CC angiogenic disorder, or a susceptibility to such a disorder by detecting
CC mutations in a PRO gene, or the expression level of a PRO gene within a
CC particular tissue; treating a cardiovascular, endothelial or angiogenic
CC disorder via the administration of a PRO protein, PRO nucleic acid, or
CC PRO agonist or antagonist; a retroviral gene therapy vector comprising a
CC PRO nucleic acid; and methods of inhibiting or stimulating endothelial
CC cell growth, cardiac hypertrophy or PRO-induced angiogenesis via the
CC administration of a PRO protein, or an agonist or antagonist thereof. PRO
CC nucleic acids, PRO proteins, antibodies against PRO proteins, PRO
CC agonists and PRO antagonists may be used as therapeutic agents to treat
CC cardiovascular, endothelial or angiogenic disorders, such as
CC atherosclerosis, osteoporosis, myocardial infarction, hypertension,
CC diabetic retinopathy, rheumatoid arthritis, Crohn's disease, psoriasis,
CC endometriosis, ulcers, wounds, cancer, Alzheimer's disease, Huntington's
CC disease, or stroke. PRO nucleic acids are additionally useful in the
CC recombinant production of PRO proteins, as hybridisation probes to screen
CC libraries to isolate cDNAs with sequence identity to PRO proteins, to map
CC genes encoding PRO proteins, to analyse genetic disorders, and in gene
CC therapy. PRO nucleic acids can also be used to produce transgenic animals
CC useful for the development and screening of potential therapeutic agents.
XX The present sequence represents a PRO protein of the invention
XX
XX Sequence 105 AA;
```

Query Match 100.0%; Score 589; DB 4; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
 |||||
 DB 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
 |||||

QY 61 HPGSHKVPFRKRKHHTCPCLPNLLCSRPDPGGRYCSMDLKNINF 105
 |||||
 DB 61 HPGSHKVPFRKRKHHTCPCLPNLLCSRPDPGGRYCSMDLKNINF 105
 |||||

RESULT 7
 AAB65268
 ID AAB65268 standard; protein; 105 AA.
 AC AAB65268;
 XX DT 02-APR-2001 (first entry)
 XX Human PRO1186 (UNQ600) protein sequence SEQ ID NO:371.
 XX Human; secreted and transmembrane protein; PRO; cytostatic; cell death;
 KW cancer; chromosomal mapping; gene mapping; tissue typing;
 KW diagnostic assay.
 XX Homo sapiens.
 XX WO200073454-A1.
 XX 07-DEC-2000.
 XX 30-MAR-2000; 2000WO-US008439.
 XX 02-JUN-1999; 99WO-US012252.
 PR 23-JUN-1999; 99US-0141037P.
 PR 07-JUL-1999; 99US-0143048P.
 PR 20-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 28-JUL-1999; 99US-0146222P.
 PR 17-AUG-1999; 99US-0149396P.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 08-OCT-1999; 99US-0158663P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 16-DEC-1999; 99WO-US030095.
 PR 20-DEC-1999; 99WO-US030911.
 PR 03-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 24-FEB-2000; 2000WO-US004914.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 15-MAR-2000; 2000WO-US006884.
 PR 20-MAR-2000; 2000WO-US007377.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gerber H, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi CJ, Gurney AL, Kijavini IJ, Napier MA, Pan J, Paoni NF;
 PI Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM, Wood WI;
 PI Zhang Z;
 XX WPI; 2001-032160/04.
 DR N-PSDB; AAF44237.
 XX PRO polynucleotides used to produce polypeptides used to target bioactive

PT molecules such as toxins, radiolabels or antibodies, to specific cells,
 PT to cause targeted cell death.
 XX Claim 12; Fig 266; 935pp; English.
 CC The present invention describes human secreted and transmembrane PRO
 CC proteins. The PRO proteins have cytostatic activity. The PRO proteins can
 CC be used for targeted delivery of bioactive molecules, such as toxins,
 CC radiolabels or antibodies, that cause cell death. PRO nucleotide
 CC sequences, and their fragments, can be used as hybridisation probes, in
 CC chromosomal and gene mapping, and in the generation of anti-sense RNA and
 CC DNA. They may also be used to produce transgenic animals which are used
 CC to develop and screen therapeutically useful reagents. The PRO nucleotide
 CC and protein sequence can be used for tissue typing and in treating
 CC cancer. Anti-PRO antibodies can be used in diagnostic assays. AAF44270 to
 CC AAF44470 represent PCR primers and hybridisation probes used in the
 CC isolation of human PRO sequences. AAF44087 to AAF44269 and AAB65154 to
 CC AAB65300 represent human PRO polynucleotide and protein sequences given
 CC in the exemplification of the present invention
 XX Sequence 105 AA;
 SQ

Query Match 100.0%; Score 589; DB 4; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
 |||||
 DB 1 MRGATRVSIMLLLVTSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGREGEC 60
 |||||

QY 61 HPGSHKVPFRKRKHHTCPCLPNLLCSRPDPGGRYCSMDLKNINF 105
 |||||
 DB 61 HPGSHKVPFRKRKHHTCPCLPNLLCSRPDPGGRYCSMDLKNINF 105
 |||||

RESULT 8
 AAB48175
 ID AAB48175 standard; protein; 105 AA.
 XX AC AAB48175;
 XX 02-APR-2001 (first entry)
 XX Human PRO1186 polypeptide.
 XX PRO1186; PRO184; neoplastic; cell growth; tumour; cancer; breast;
 KW ovarian; renal; colorectal; uterine; prostate; lung; melanoma;
 KW central nervous system; leukemia; antitumor; cytostatic.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 FH Peptide 1..19 /note= "signal sequence"
 FT Protein 20..105 /note= "mature protein"
 FT Modified-site 33..39 /note= "N-myristoylation site"
 FT Modified-site 35..41 /note= "N-myristoylation site"
 FT Modified-site 46..52 /note= "N-myristoylation site"
 FT Modified-site 88..95 /note= "tyrosine kinase phosphorylation site"
 FT WO200075327-A1.
 XX 14-DEC-2000.
 XX 24-FEB-2000; 2000WO-US004914.
 XX 02-JUN-1999; 99WO-US012252.
 PR 26-JUL-1999; 99US-0145698P.

FH Key Location/Qualifiers
 FT Peptide 1..19
 FT Protein /label= Signal_peptide
 FT 20..105
 FT /label= Mature_protein
 FT 33
 FT Modified-site /note= "N-myristoylated"
 FT 35
 FT Modified-site /note= "N-myristoylated"
 FT 46
 FT Modified-site /note= "N-myristoylated"
 FT WO200200711-A2.
 PN
 XX
 XX 03-JAN-2002.
 XX
 XX 22-JUN-2001; 2001WO-US020116.
 XX
 XX 23-JUN-2000; 2000US-0213637P.
 PR 07-SEP-2000; 2000US-0230978P.
 PR 01-DEC-2000; 2000WO-US032678.
 XX
 PA (GETH) GENENTECH INC.
 XX
 XX Ferrara N, Watanabe C, Wood WI;
 PI
 XX
 XX WPI; 2002-130882/17.
 DR N-PSDB; ABA91567.
 XX
 XX New endocrine gland-vascular endothelial growth factor (EG-VEGF)
 FT polypeptides, agonists and antagonists, useful for regulating fertility,
 PT and for treating cancer of the reproductive organs, e.g. ovarian or
 PT prostate cancer.
 PT
 XX
 PS Claim 12; Fig 2; 133pp; English.
 XX
 CC The present sequence is that of a novel, tissue-restricted, growth and
 CC differentiation factor termed endocrine gland-derived vascular
 CC endothelial growth factor (EG-VEGF). The sequence is predicted from the
 CC open reading frame of a cDNA clone (see ABA91567) obtained from an
 CC ovarian tissue library. EG-VEGF induces proliferation, migration and
 CC fenestrations in capillary endothelial cells derived from endocrine
 CC glands, but has no effect on a variety of other endothelial and non-
 CC endothelial cell types tested. The EG-VEGF precursor has a predicted
 CC mol.wt. of 11715 and a pI of 9.05. The mature protein (mol.wt. 8600) is
 CC cysteine-rich and is predicted to consist of a series of short beta
 CC strands with large connecting loops held together by disulfide bonds
 CC resulting in a flat fold with finger-like projections that act as
 CC interactive surfaces. 80% Homology and 63% identity is shown to venom
 CC protein A (VPRA) of the black mamba snake, and 76% homology and 58%
 CC identity to human protein Bv8. EG-VEGF nucleic acids and polypeptides, as
 CC well as agonists and antagonists, can be used in the treatment of
 CC conditions associated with hormone-producing tissue, especially ovarian,
 CC testicular, cervical, adrenal, placental or prostate tissue. The
 CC condition may be polycystic ovary syndrome, cancer, especially ovarian
 CC cancer, testicular cancer, prostate cancer or uterine cancer, or ovarian
 CC cyst (all claimed). Fertility can be regulated using an EG-VEGF
 CC antagonist to inhibit follicle maturation or ovulation. Methods are
 CC claimed for identifying compounds that modulate EG-VEGF activity,
 CC especially the ability to induce phosphorylation of a kinase involved in
 CC cell proliferation or survival, to induce chemotaxis, angiogenesis, or
 CC cell differentiation, or to induce endothelial cell proliferation
 XX
 SQ Sequence 105 AA;
 Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCAGTCCCAISLWLRGMRCTPLGRGEEC 60
 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCAGTCCCAISLWLRGMRCTPLGRGEEC 60

QY 61 HPGSHKVPFFRRKHKHTCPCLNLLCSRFPDGRYRCSDMLKKNIF 105
 DB 61 HPGSHKVPFFRRKHKHTCPCLNLLCSRFPDGRYRCSDMLKKNIF 105
 RESULT 11
 AAU83674
 ID AAU83674 standard; protein; 105 AA.
 XX
 AC AAU83674;
 XX
 DT 08-MAY-2002 (first entry)
 XX
 XX Human PRO protein, Seq ID No 166.
 DE
 XX
 KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;
 KW pericyte cell proliferation; chondrocyte cell proliferation;
 KW tumour necrosis factor-alpha.
 OS Homo sapiens.
 XX
 PN WO200208288-A2.
 XX
 PD 31-JAN-2002.
 XX
 XX 29-JUN-2001; 2001WO-US021066.
 PF
 XX 20-JUL-2000; 2000US-0219556P.
 PR 25-JUL-2000; 2000US-0220585P.
 PR 25-JUL-2000; 2000US-0220605P.
 PR 25-JUL-2000; 2000US-0220607P.
 PR 25-JUL-2000; 2000US-0220624P.
 PR 25-JUL-2000; 2000US-0220638P.
 PR 25-JUL-2000; 2000US-0220664P.
 PR 25-JUL-2000; 2000US-0220666P.
 PR 26-JUL-2000; 2000US-0220893P.
 PR 28-JUL-2000; 2000WO-US020710.
 PR 01-AUG-2000; 2000US-0222425P.
 PR 22-AUG-2000; 2000US-0227133P.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 10-NOV-2000; 2000WO-US030873.
 PR 28-NOV-2000; 2000US-0253646P.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 20-DEC-2000; 2000US-00747259.
 PR 28-FEB-2001; 2001WO-US034956.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 22-MAR-2001; 2001US-00816744.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001WO-US017092.
 XX (GETH) GENENTECH INC.
 XX Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
 XX WPI; 2002-172001/22.
 DR N-PSDB; ABK33618.
 XX
 PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
 PT useful for treating a PRO related disorder and for diagnosing tumors such
 PT as lung cancer, colon cancer, breast tumor, prostate tumor, rectal tumor
 PT or liver tumor.
 PS Claim 11; Fig 166; 359pp; English.
 XX
 CC The invention relates to one hundred and twenty two nucleic acids
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
 CC agonists and antagonists are useful for treating a PRO related disorder.

CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
 CC protein sequences of the invention
 XX

SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60
 DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60
 QY 61 HPGSHKVPFPRKRKHHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFPRKRKHHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105

RESULT 12

ABB84902

ID ABB84902 standard; protein; 105 AA.

XX AC ABB84902;

XX DT 16-MAY-2002 (first entry)

XX DE Human PRO1186 protein sequence SEQ ID NO:172.

XX Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;
 KW vulnery; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 KW age-related macular degeneration; arterial restenosis; angina;
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 KW wound healing; chromosome mapping; gene mapping.

XX OS Homo sapiens.

XX PN WO200200690-A2.

XX PD 03-JAN-2002.

XX PF 20-JUN-2001; 2001WO-US019692.

XX PR 23-JUN-2000; 2000US-0213637P.

XX PR 20-JUL-2000; 2000US-0219556P.

XX PR 25-JUL-2000; 2000US-0220624P.

XX PR 25-JUL-2000; 2000US-0220864P.

XX PR 28-JUL-2000; 2000WO-US020710.

XX PR 02-AUG-2000; 2000US-0222695P.

XX PR 17-AUG-2000; 2000US-00643657.

XX PR 23-AUG-2000; 2000WO-US023522.

XX PR 24-AUG-2000; 2000WO-US023328.

XX PR 07-SEP-2000; 2000US-0230378P.

XX PR 18-SEP-2000; 2000US-00664610.

XX PR 18-SEP-2000; 2000US-00665350.

XX PR 24-OCT-2000; 2000US-0242922P.

XX PR 08-NOV-2000; 2000US-00709238.

XX PR 08-NOV-2000; 2000WO-US030952.

XX PR 10-NOV-2000; 2000WO-US030873.

XX PR 01-DEC-2000; 2000WO-US032678.

XX PR 20-DEC-2000; 2000US-00747259.

PR 20-DEC-2000; 2000WO-US034956.
 PR 22-JAN-2001; 2001US-00767609.
 PR 28-FEB-2001; 2001US-00796498.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US008666.
 PR 09-MAR-2001; 2001US-00802706.
 PR 14-MAR-2001; 2001US-00808689.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854208.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 30-MAY-2001; 2001WO-US017092.
 PR 30-MAY-2001; 2001US-00870574.
 PR 30-MAY-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 XX

PA (GETH) GENENTECH INC.

PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;

XX WPI; 2002-090516/12.

DR N-PSDB; ABL88157.

XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal.

XX Claim 11; Fig 172; 565pp; English.

XX ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
 CC cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The PRO polynucleotides have applications in molecular biology,
 CC including use as hybridisation probes, and in chromosome and gene
 CC mapping. ABL88259 to ABL88267 represent primers and probes used in the
 CC exemplification of the present invention

XX SQ Sequence 105 AA;

Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60

DB 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEEC 60

QY 61 HPGSHKVPFPRKRKHHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105

DB 61 HPGSHKVPFPRKRKHHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105

RESULT 13

AAO15527

ID AAO15527 standard; protein; 105 AA.

XX AC AAO15527;

XX DT 24-OCT-2002 (first entry)

XX DE Human physiologically-active 2AQ ligand-related protein 3.

XX

KW Human; ZAQ ligand; physiologically-active ZAQ ligand; digestive disease;
 KW colitis; diarrhoea.
 XX Homo sapiens.
 XX WO200257443-A1.
 XX 25-JUL-2002.
 XX 21-JAN-2002; 2002WO-JP000378.
 XX 22-JAN-2001; 2001JP-00013027.
 PR 17-MAY-2001; 2001JP-00147759.
 XX (TAKE) TAKEDA CHEM IND LTD.
 XX Yamada T, Suenaga M, Nishimura O;
 XX WPI; 2002-566801/60.
 XX Industrial production of physiologically-active ZAQ ligand by expressing
 PT in transformant prokaryote and refolding in redox buffer, for use in
 PT preventing or treating digestive diseases e.g. colitis and diarrhea.
 XX Example 3; Page 76-77; 93pp; Japanese.
 XX The invention comprises a method for producing an active peptide that has
 CC the same activity as a ZAQ ligand isolated from eukaryotic cells. The
 CC method of the invention is useful for the production of a physiologically
 CC -active ZAQ ligand for use in preventing or treating digestive diseases
 CC (e.g. colitis and diarrhea). The present amino acid sequence represents a
 CC human physiologically active ZAQ ligand-related protein
 XX Sequence 105 AA;
 SQ Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWRLGLRMCTPLGREGEC 60
 DB 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWRLGLRMCTPLGREGEC 60
 QY 61 HPGSHKVPFFRKRRKHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFFRKRRKHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105
 RESULT 14
 ABB06308
 ID ABB06308 standard; protein; 105 AA.
 XX ABB06308;
 XX 27-MAY-2002 (first entry)
 XX Human G protein-coupled receptor ZAQ ligand protein SEQ ID NO:23.
 XX G protein-coupled receptor; ZAQ ligand; physiologically active peptide;
 KW ZAQ; antidiarrheic; laxative; drug development; digestive disease;
 KW colitis; diarrhoea; constipation; poor-absorption syndrome; gene therapy.
 XX Homo sapiens.
 XX WO200206483-A1.
 XX 24-JAN-2002.
 XX 17-JUL-2001; 2001WO-JP006162.
 XX 18-JUL-2000; 2000JP-00217442.
 PR 02-FEB-2001; 2001JP-00026779.
 XX

PA (TAKE) TAKEDA CHEM IND LTD.
 XX Ohtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y;
 PI Hinuma S;
 XX WPI; 2002-188546/24.
 DR N-PSDB; ABL49637.
 XX Physiologically-active peptides from cows milk, useful for developing
 PT drugs to treat ZAQ-mediated diseases, particularly digestive diseases
 PT like colitis, diarrhoea, constipation and poor-absorption syndrome, by
 PT gene therapy.
 XX Claim 5; Page 61; 191pp; Japanese.
 XX The present invention describes a peptide containing an amino acid
 CC sequence (I) identical to or substantially similar to that of the
 CC sequences in ABB06305 or ABB06306, or its salt. (I) has antidiarrheic and
 CC laxative activities. The peptides and encoding DNAs from the present
 CC invention are useful for developing drugs to treat digestive diseases,
 CC like colitis, diarrhoea, constipation and poor-absorption syndrome,
 CC including gene therapy. The physiologically-active cows milk-originated
 CC peptides are applicable as a specific ligand of brain-originated orphan G
 CC protein-coupled receptor protein ZAQ. ABL49615 to ABB40659 and ABB06303
 CC to ABB06315 represent sequences used in the exemplification of the
 CC present invention
 XX Sequence 105 AA;
 SQ Query Match 100.0%; Score 589; DB 5; Length 105;
 Best Local Similarity 100.0%; Pred. No. 3.3e-54;
 Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWRLGLRMCTPLGREGEC 60
 DB 1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCAISLWRLGLRMCTPLGREGEC 60
 QY 61 HPGSHKVPFFRKRRKHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105
 DB 61 HPGSHKVPFFRKRRKHTCTCLPNLLCSRFPDGRYRCMDLKNINF 105
 RESULT 15
 AAE24382
 ID AAE24382 standard; protein; 105 AA.
 XX AAE24382;
 XX 04-OCT-2002 (first entry)
 XX Human prokineticin 1 precursor protein.
 XX Human; prokineticin 1; gastrointestinal motility; intestinal cancer;
 KW irritable bowel syndrome; gastrointestinal reflux disease; diarrhoea;
 KW diabetic gastroparesis; chronic constipation; malabsorptive disorder;
 KW inflammatory bowel disorder; analgesic; infectious disease.
 XX Homo sapiens.
 XX Key Location/Qualifiers
 FH 1..19
 FT Peptide /label= Signal_peptide
 FT Protein 20..105
 FT /note= "Mature human prokineticin 1"
 XX WO200236625-A2.
 XX 10-MAY-2002.
 XX 01-NOV-2001; 2001WO-US047969.
 XX 03-NOV-2000; 2000US-0245882P.
 XX

```
PA (REGC ) UNIV CALIFORNIA.
XX
PI Zhou Q, Ehlert FJ;
XX
DR WPI; 2002-479752/51.
DR N-PSDB; AAD39321.
XX
PT New isolated human prokineticin 1 and 2 polypeptides that stimulate
PT gastrointestinal smooth muscle contraction, useful for improving impaired
PT gastrointestinal motility in irritable bowel syndrome, chronic
PT constipation.
XX
PS Example 1; Fig 1; 86pp; English.
XX
CC The invention relates to human prokineticin 1 and 2 polypeptides that
CC stimulate gastrointestinal smooth muscle contraction and nucleic acid
CC molecules encoding such polypeptides. Polypeptides of the invention are
CC useful for treating disorders involving impaired gastrointestinal
CC motility. They are useful for stimulating gastrointestinal motility in
CC disorders such as irritable bowel syndrome, diabetic gastroparesis, post-
CC operational ileus, chronic constipation and gastrointestinal reflux
CC disease. The prokineticin antagonists are useful for inhibiting
CC gastrointestinal motility in conditions of diarrhoea, malabsorptive
CC disorders, inflammatory bowel disorders, infectious diseases and
CC intestinal cancers. The antagonists also act as analgesics. The present
CC sequence is human prokineticin 1 precursor protein
XX
SQ Sequence 105 AA;

Query Match          100.0%; Score 589; DB 5; Length 105;
Best Local Similarity 100.0%; Pred. NO. 3.3e-54;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCALSLWLRGLRMCTPLGRGEEC 60
Db      1 MRGATRVSIIMLLVTVSDCAVITGACERDVQCGAGTCCALSLWLRGLRMCTPLGRGEEC 60
QY      61 HPGSHKVPFFPRKRKHHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105
Db      61 HPGSHKVPFFPRKRKHHTCPCLPNLLCSRFPDGRYRCMDLKNINF 105
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Search completed: September 20, 2005, 12:55:58
Job time : 167 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 20, 2005, 12:45:40 ; Search time 42 Seconds
(without alignments)
186.623 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSIMLLLVTVSDCA.....CSRFPDGRYRCMDLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA:*

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4: /cgn2_6/prodata/1/iaa/6B COMB.pap.*

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6: /cgn2_6/prodata/1/iaa/backfiles1.pap.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	589	100.0	105	4	US-09-712-529-5
2	589	100.0	105	4	US-10-212-201A-5
3	589	100.0	105	4	US-10-212-355-5
4	577	98.0	105	4	US-09-621-976-5350
5	448	76.1	80	4	US-09-513-999C-4698
6	303	51.4	108	4	US-09-712-529-2
7	303	51.4	108	4	US-10-212-201A-2
8	303	51.4	108	4	US-10-212-355-2
9	107.5	18.3	224	3	US-09-161-241-14
10	102	17.3	186	4	US-09-949-016-7146
11	102	17.3	207	3	US-09-161-241-13
12	102	17.3	259	3	US-09-161-241-12
13	102	17.3	259	4	US-09-949-016-6872
14	101	17.1	259	3	US-09-161-241-11
15	100.5	17.1	350	3	US-09-161-241-9
16	100.5	17.1	350	4	US-09-907-794A-236
17	100.5	17.1	350	4	US-09-905-125A-236
18	100.5	17.1	350	4	US-09-902-775A-236
19	100.5	17.1	350	4	US-09-906-700-236
20	100.5	17.1	350	4	US-09-903-603A-236
21	100.5	17.1	350	4	US-09-904-920A-236
22	100.5	17.1	350	4	US-09-909-064-236
23	100.5	17.1	350	4	US-09-905-381A-236
24	100.5	17.1	350	4	US-09-906-618-236
25	100.5	17.1	375	4	US-09-949-016-7856
26	100.5	17.1	375	4	US-09-949-016-7857
27	100.5	17.1	375	4	US-09-949-016-7858

28	98.5	16.7	349	3	US-09-161-241-8	Sequence 8, Appli
29	97	16.5	266	3	US-09-161-241-10	Sequence 10, Appli
30	97	16.5	266	4	US-09-976-594-1086	Sequence 1086, Ap
31	82	13.9	1342	4	US-09-561-709B-13	Sequence 13, Appli
32	81	13.8	1964	3	US-09-467-997-1	Sequence 1, Appli
33	79	13.4	124	4	US-09-949-016-11293	Sequence 11293, A
34	78.5	13.3	163	2	US-08-219-237B-5	Sequence 5, Appli
35	78.5	13.3	163	3	US-08-477-347-13	Sequence 13, Appli
36	78.5	13.3	163	3	US-08-476-862-4	Sequence 4, Appli
37	78.5	13.3	163	3	US-08-468-560C-5	Sequence 5, Appli
38	78.5	13.3	163	4	US-09-800-909-4	Sequence 4, Appli
39	78.5	13.3	163	4	US-09-800-908-13	Sequence 13, Appli
40	75.5	12.8	1101	4	US-09-561-709B-5	Sequence 5, Appli
41	75.5	12.8	1761	4	US-09-561-709B-1	Sequence 1, Appli
42	75	12.7	546	4	US-09-949-016-10394	Sequence 10394, A
43	75	12.7	651	1	US-08-264-101-2	Sequence 2, Appli
44	75	12.7	651	2	US-08-765-243-2	Sequence 2, Appli
45	75	12.7	651	5	PCT-US95-07295-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-712-529-5
; Sequence 5, Application US/09712529
; Patent No. 6485938
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/09/712,529
; CURRENT FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-712-529-5

Query Match	100.0%	Score 589;	DB 4;	Length 105;
Best Local Similarity	100.0%	Pred. No. 9.3e-59;		
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QY	1	MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC	60	
Db	1	MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC	60	
QY	61	HFGSHKVPFRKRRKHTCTCLNLCRFPDGRYRCMDLKNINF	105	
Db	61	HFGSHKVPFRKRRKHTCTCLNLCRFPDGRYRCMDLKNINF	105	

RESULT 2
US-10-212-201A-5
; Sequence 5, Application US/10212201A
; Patent No. 6756479
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,201A
; CURRENT FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US/09/712,529
; PRIOR FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7

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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-201A-5

Query Match      100.0%; Score 589; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 9.3e-59;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60

QY 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 3
US-10-212-355-5
; Sequence 5, Application US/10212355
; Patent No. 6828425
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,355
; CURRENT FILING DATE: 2002-08-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-355-5

Query Match      100.0%; Score 589; DB 4; Length 105;
Best Local Similarity 100.0%; Pred. No. 9.3e-59;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60

QY 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 4
US-09-621-976-5350
; Sequence 5350, Application US/09621976
; Patent No. 6639063
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET.054PR2
; CURRENT APPLICATION NUMBER: US/09/621,976
; CURRENT FILING DATE: 2000-07-21
; NUMBER OF SEQ ID NOS: 19335
; SOFTWARE: Patent.pm
; SEQ ID NO 5350
; LENGTH: 105
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:

Query Match      76.1%; Score 448; DB 4; Length 80;
Best Local Similarity 98.8%; Pred. No. 4.7e-43;
Matches 79; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60

QY 61 HPGSHKVPFRKRKHHKTCPC 80
Db 61 HPGSHKVPFRKRKHHKTCPC 80

RESULT 5
US-09-513-999C-4698
; Sequence 4698, Application US/09513999C
; Patent No. 6783961
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; Patent No. 6783961
; FILE REFERENCE: 59 US2 REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 4698
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SIGNAL
; LOCATION: -19...-1
; OTHER INFORMATION: score 7.2
; OTHER INFORMATION: seq VSIMLLLVTVSDC/AV
US-09-513-999C-4698

Query Match      98.0%; Score 577; DB 4; Length 105;
Best Local Similarity 97.1%; Pred. No. 2.1e-57;
Matches 102; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMTPLGREGEC 60

QY 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFRKRKHHKTCPLNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 6
US-09-712-529-2
; Sequence 2, Application US/09712529
; Patent No. 6485938
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/09/712,529
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; CURRENT FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-712-529-2

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Best Local Similarity 55.2%; Pred. No. 1.2e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
Db 18 LLLTPRAGDAAVITGACDKDSQCGGMCACAVSIWKSIRICTPMGKLGDSCHPLTRKVPF 77
Qy 70 FRKKHHTCPCPLNLLCSRPFDGRC 96
Db 78 FGRMHHTCPCPLGLACLRFSFNRFC 104

RESULT 7
US-10-212-201A-2
; Sequence 2, Application US/10212201A
; Patent No. 6756479
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,201A
; CURRENT FILING DATE: 2002-08-02
; PRIOR FILING DATE: 2000-11-14
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-201A-2

Query Match      51.4%; Score 303; DB 4; Length 108;
Best Local Similarity 55.2%; Pred. No. 1.2e-26;
Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
Db 18 LLLTPRAGDAAVITGACDKDSQCGGMCACAVSIWKSIRICTPMGKLGDSCHPLTRKVPF 77
Qy 70 FRKKHHTCPCPLNLLCSRPFDGRC 96
Db 78 FGRMHHTCPCPLGLACLRFSFNRFC 104

RESULT 8
US-10-212-355-2
; Sequence 2, Application US/10212355
; Patent No. 6828425
; GENERAL INFORMATION:
; APPLICANT: Sheppard, Paul O.
; APPLICANT: Bishop, Paul D.
; APPLICANT: Whitmore, Theodore E.
; APPLICANT: Thompson, Penny P.
; TITLE OF INVENTION: Human Zven Proteins
; FILE REFERENCE: 99-81
; CURRENT APPLICATION NUMBER: US/10/212,355
; CURRENT FILING DATE: 2002-08-02
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: FastSeq for Windows Version 3.0
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; SEQ ID NO 2
; LENGTH: 108
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-212-355-2

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Matches 48; Conservative 15; Mismatches 24; Indels 0; Gaps 0;

Qy 10 MLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPF 69
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Qy 70 FRKKHHTCPCPLNLLCSRPFDGRC 96
Db 78 FGRMHHTCPCPLGLACLRFSFNRFC 104

RESULT 9
US-09-161-241-14
; Sequence 14, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 14
; LENGTH: 224
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-14

Query Match      18.3%; Score 107.5; DB 3; Length 224;
Best Local Similarity 35.5%; Pred. No. 0.00025;
Matches 22; Conservative 5; Mismatches 32; Indels 3; Gaps 1;

Qy 25 ACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGECHPGSHKVPFPRKRKHHTCPCPL 84
Db 144 SCLRTDPCGGLCCARHFW---TKICKPVLLGQVCSRRGHKDTAQAPEIFQRCDGPG 200
Qy 85 LC 86
Db 201 LC 202

RESULT 10
US-09-949-016-7146
; Sequence 7146, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
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; LENGTH: 186
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-7146

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Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

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QY 82 PNLCSRFPPDGRY 94
Db 162 KGLSCKVWKDATY 174

RESULT 11
US-09-161-241-13
; Sequence 13, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 13
; LENGTH: 207
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-13

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Best Local Similarity 31.5%; Pred. No. 0.00095;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

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Db 131 CLRSSDCIEGFCCARHF---TKICKPVLHQGEVCTKQKKGSHGLEIFQR-----CDCA 182

QY 82 PNLCSRFPPDGRY 94
Db 183 KGLSCKVWKDATY 195

RESULT 12
US-09-161-241-12
; Sequence 12, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-12

Query Match      17.3%; Score 102; DB 3; Length 259;
Best Local Similarity 31.5%; Pred. No. 0.0012;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;

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QY 82 PNLCSRFPPDGRY 94
Db 235 KGLSCKVWKDATY 247

RESULT 13
US-09-949-016-6872
; Sequence 6872, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
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; SOFTWARE: FastSeq for Windows Version 4.0
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; LENGTH: 259
; TYPE: PRT
; ORGANISM: Human
US-09-949-016-6872

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Best Local Similarity 31.5%; Pred. No. 0.0012;
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QY 82 PNLCSRFPPDGRY 94
Db 235 KGLSCKVWKDATY 247

RESULT 14
US-09-161-241-11
; Sequence 11, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 259
; TYPE: PRT
; ORGANISM: Mouse
US-09-161-241-11

Query Match      17.1%; Score 101; DB 3; Length 259;
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Best Local Similarity 31.5%; Pred. No. 0.0016;
Matches 23; Conservative 8; Mismatches 30; Indels 12; Gaps 3;
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Db 183 CLSSDCIDGFCCARHF-----TKICKPVLHQGEVCTKQRKKGSHGLEIFOR-----CDCA 234
QY 82 PNLCSRFPDGRY 94
Db 235 KGLCKVWKDATY 247

RESULT 15
US-09-161-241-9
; Sequence 9, Application US/09161241
; Patent No. 6344541
; GENERAL INFORMATION:
; APPLICANT: Bass, Michael B
; APPLICANT: Sullivan, John K
; APPLICANT: Theill, Lars E
; APPLICANT: Wang, Daguang
; TITLE OF INVENTION: NOVEL DKR POLYPEPTIDES
; FILE REFERENCE: A-548
; CURRENT APPLICATION NUMBER: US/09/161,241
; CURRENT FILING DATE: 1998-09-25
; NUMBER OF SEQ ID NOS: 78
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 350
; TYPE: PRT
; ORGANISM: Human
US-09-161-241-9

Query Match 17.1%; Score 100.5; DB 3; Length 350;
Best Local Similarity 37.7%; Pred. No. 0.0025;
Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;
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QY 78 CPCLPNLLC 86
Db 265 CPCASGLLC 273

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GenCore version 5.1.6
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OM protein - protein search, using sw model

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Perfect score: 589

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	589	100.0	105	9	US-09-989-727-371
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6	589	100.0	105	9	US-09-989-732-371
7	589	100.0	105	9	US-09-991-073-371
8	589	100.0	105	9	US-09-990-442-371
9	589	100.0	105	9	US-09-991-163-371
10	589	100.0	105	9	US-09-993-604-371
11	589	100.0	105	9	US-09-990-456-371

12	589	100.0	105	9	US-09-989-721-371
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15	589	100.0	105	9	US-09-989-293A-371
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ALIGNMENTS

RESULT 1
US-09-989-722-371
; Sequence 371, Application US/09989722
; Patent No. US20020072067A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tuma, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P27301C63
; CURRENT APPLICATION NUMBER: US/09/989, 722
; CURRENT FILING DATE: 2001-11-19

1	PRIOR APPLICATION NUMBER: 60/049787	2	PRIOR FILING DATE: 1998-06-12
2	PRIOR FILING DATE: 1997-06-16	3	PRIOR APPLICATION NUMBER: 60/089440
3	PRIOR APPLICATION NUMBER: 60/062250	4	PRIOR FILING DATE: 1998-06-16
4	PRIOR FILING DATE: 1997-10-17	5	PRIOR APPLICATION NUMBER: 60/089512
5	PRIOR APPLICATION NUMBER: 60/065186	6	PRIOR FILING DATE: 1998-06-16
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8	PRIOR FILING DATE: 1997-11-13	9	PRIOR APPLICATION NUMBER: 60/089532
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12	PRIOR FILING DATE: 1998-02-25	13	PRIOR APPLICATION NUMBER: 60/089598
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16	PRIOR FILING DATE: 1998-04-28	17	PRIOR APPLICATION NUMBER: 60/089600
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22	PRIOR FILING DATE: 1998-06-02	23	PRIOR APPLICATION NUMBER: 60/089907
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30	PRIOR FILING DATE: 1998-06-04	31	PRIOR APPLICATION NUMBER: 60/089952
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56	PRIOR FILING DATE: 1998-06-10	57	PRIOR APPLICATION NUMBER: 60/090540
57	PRIOR APPLICATION NUMBER: 60/088738	58	PRIOR FILING DATE: 1998-06-24
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59	PRIOR APPLICATION NUMBER: 60/088826	60	PRIOR FILING DATE: 1998-06-24
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63	PRIOR APPLICATION NUMBER: 60/088810	64	PRIOR FILING DATE: 1998-06-24
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65	PRIOR APPLICATION NUMBER: 60/088824	66	PRIOR FILING DATE: 1998-06-24
66	PRIOR FILING DATE: 1998-06-10	67	PRIOR APPLICATION NUMBER: 60/090678
67	PRIOR APPLICATION NUMBER: 60/088826	68	PRIOR FILING DATE: 1998-06-25
68	PRIOR FILING DATE: 1998-06-10	69	PRIOR APPLICATION NUMBER: 60/090690
69	PRIOR APPLICATION NUMBER: 60/088858		

; PRIOR APPLICATION NUMBER: 60/090862
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/090863
 ; PRIOR FILING DATE: 1998-06-26
 ; PRIOR APPLICATION NUMBER: 60/091360
 ; PRIOR FILING DATE: 1998-07-01
 ; PRIOR APPLICATION NUMBER: 60/091478
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 ; PRIOR APPLICATION NUMBER: 60/091626
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091633
 ; PRIOR FILING DATE: 1998-07-02
 ; PRIOR APPLICATION NUMBER: 60/091978
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/091982
 ; PRIOR FILING DATE: 1998-07-07
 ; PRIOR APPLICATION NUMBER: 60/092182
 ; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVISIMLLAVTSDCAVITGACERDVQCGAGTCCALSILWLRGLRMCPTLGRGEEC 60

DB 1 MRGATRVISIMLLAVTSDCAVITGACERDVQCGAGTCCALSILWLRGLRMCPTLGRGEEC 60

QY 61 HPGSHKVPFFRKRRKHHTCPCLNLLCSRFDPGRYCSMDLKNINF 105

DB 61 HPGSHKVPFFRKRRKHHTCPCLNLLCSRFDPGRYCSMDLKNINF 105

RESULT 2

US-09-989-723-371

; Sequence 371, Application US/09989723

; Patent No. US20020072092A1

; GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi J.

; APPLICANT: Baker, Kevin P.

; APPLICANT: Botstein, David

; APPLICANT: Desnoyers, Luc

; APPLICANT: Eaton, Dan L.

; APPLICANT: Ferrara, Napoleone

; APPLICANT: Fong, Sherman

; APPLICANT: Gerber, Hanspeter

; APPLICANT: Gerritsen, Mary E.

; APPLICANT: Goddard, Audrey

; APPLICANT: Godowski, Paul J.

; APPLICANT: Grimaldi, J. Christopher

; APPLICANT: Gurney, Austin L.

; APPLICANT: Kljavin, Ivar J.

; APPLICANT: Napier, Mary A.

; APPLICANT: Pan, James

; APPLICANT: Paoni, Nicholas P.

; APPLICANT: Roy, Margaret Ann

; APPLICANT: Stewart, Timothy A.

; APPLICANT: Tumas, Daniel

; APPLICANT: Watanabe, Colin K.

; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.

; APPLICANT: Zhang, Zemin

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

; TITLE OF INVENTION: Acids Encoding the Same

; FILE REFERENCE: P2730P1C62

; CURRENT APPLICATION NUMBER: US/09/989,723

; CURRENT FILING DATE: 2001-11-19

; PRIOR APPLICATION NUMBER: 60/049787

; PRIOR FILING DATE: 1997-06-16

; PRIOR APPLICATION NUMBER: 60/062250

; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/065186
 ; PRIOR FILING DATE: 1997-11-12
 ; PRIOR APPLICATION NUMBER: 60/065311
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 60/066770
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 ; PRIOR FILING DATE: 1998-06-12
 ; PRIOR APPLICATION NUMBER: 60/089440
 ; PRIOR FILING DATE: 1998-06-16

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; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091478
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; PRIOR APPLICATION NUMBER: 60/091544
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; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps

Qy      1  MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC 60
Db      1  MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC 60

Qy      61  HPGSHKVPFRKKHHTCCLPNLLCSRFPDGRYRCSMDLKNINF 105
Db      61  HPGSHKVPFRKKHHTCCLPNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 3
US-09-389-279-371
; Sequence 371, Application US/09989279
; Patent No. US20020072496A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoli, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tuma, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC56
; CURRENT APPLICATION NUMBER: US/09/989,279
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12

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; PRIOR APPLICATION NUMBER: 60/091478
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091544
; PRIOR FILING DATE: 1998-07-01
; PRIOR APPLICATION NUMBER: 60/091519
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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match          100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRGATRVSIMLLAVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC 60
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Db      1 MRGATRVSIMLLAVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGRLMCTPLGREGEC 60
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QY      61 HPGSHKVPFRKXKHTCTCLPNLLCSRFPDGRYRCSDMLKKNIF 105
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Db      61 HPGSHKVPFRKXKHTCTCLPNLLCSRFPDGRYRCSDMLKKNIF 105
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RESULT 4
US-09-989-727-371
; Sequence 371, Application US/09989727
; Patent No. US20020072497A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC65
; CURRENT APPLICATION NUMBER: US/09/989, 727
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
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; PRIOR APPLICATION NUMBER: 60/066770
; PRIOR FILING DATE: 1997-11-24
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; PRIOR FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/078910
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; PRIOR FILING DATE: 1998-06-16
; PRIOR APPLICATION NUMBER: 60/089532
; PRIOR FILING DATE: 1998-06-17
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: APPLICANT: Zhang, Zemin
 : TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 :
 : TITLE OF INVENTION: Acids Encoding the Same

[illegible]

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; PRIOR APPLICATION NUMBER: 60/091626
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091633
; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCATSLWLRGLRMCCTPLGRGEEC 60
   |||||
Db 1 MRGATRVSIMLLVTVSDCAVITGACERDVQCGAGTCCATSLWLRGLRMCCTPLGRGEEC 60
   |||||

QY 61 HPGSHKVPFFPKRKHHTPCCLPNLLCSRFPDGRYRCSMDLKNINF 105
   |||||
Db 61 HPGSHKVPFFPKRKHHTPCCLPNLLCSRFPDGRYRCSMDLKNINF 105
   |||||

RESULT 6
US-09-989-732-371
; Sequence 371, Application US/09989732
; Patent No. US20020123463A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C57
; CURRENT APPLICATION NUMBER: US/09/989,732
; CURRENT FILING DATE: 2001-11-19
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/065186
; PRIOR FILING DATE: 1997-11-12
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
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; PRIOR FILING DATE: 1998-06-24
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; PRIOR APPLICATION NUMBER: 60/091633

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; PRIOR FILING DATE: 1998-07-02
; PRIOR APPLICATION NUMBER: 60/091978
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 HFGSHKVPFFRKRRKHTCTCPLENLCSRPDPGRYRCSDMLKNINF 105
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RESULT 7
US-09-991-073-371
; Sequence 371, Application US/09991073
; Patent No. US20020127576A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC15
; CURRENT APPLICATION NUMBER: US/09/991,073
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
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; PRIOR APPLICATION NUMBER: 60/091982
; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match      100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred.No. 1.4e-53;
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QY 61 HPGSHKVPFRKRKHHTCPCLNLLCSRPPDGRYRCMDLKNINF 105
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RESULT 8
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730P1C8
; CURRENT APPLICATION NUMBER: US/09/990,442
; CURRENT FILING DATE: 2001-11-14
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; PRIOR FILING DATE: 1998-07-09
; Query Match 100.0%; Score 589; DB 9; Length 105;
; Best Local Similarity 100.0%; Pred. No. 1.4e-53;
; Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRGATRVSIIMLLIVTSDCAVITGACERDVQCAGTCCCAISLWLRGLRMCTPLGRGEEC 60

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DB 61 HPGSHKVPFRKRKHHTCPCLPNLLCSRFPDGRYRCMDLNINP 105

RESULT 9
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; Sequence 371, Application US/09991163
; Patent No. US20020132253A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC17
; CURRENT APPLICATION NUMBER: US/09/991,163
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
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88 PRIOR FILING DATE: 1998-06-23
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138 PRIOR FILING DATE: 1998-07-02
139 PRIOR APPLICATION NUMBER: 60/091978
140 PRIOR FILING DATE: 1998-07-07
141 PRIOR APPLICATION NUMBER: 60/091982
142 PRIOR FILING DATE: 1998-07-07
143 PRIOR APPLICATION NUMBER: 60/092182
144 PRIOR FILING DATE: 1998-07-09

Query Match

100.0%; Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRGATRVISIMLLVTVSDCAVITGACERDVQCGAGTCCATSLMURGLRMCTPLGRGEEC 60
Db 1 MRGATRVISIMLLVTVSDCAVITGACERDVQCGAGTCCATSLMURGLRMCTPLGRGEEC 60
QY 61 HPGSHKVPFFRKRRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105
Db 61 HPGSHKVPFFRKRRKHHTCPCLPNLLCSRFPDGRYRCSMDLKNINF 105

RESULT 10

US-09-993-604-371
; Sequence 371, Application US/09993604
; Patent No. US20020137075A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gunney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730P1C25
; CURRENT APPLICATION NUMBER: US/09/993,604
; CURRENT FILING DATE: 2001-11-14
; PRIOR APPLICATION NUMBER: 60/049787
; PRIOR FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: 60/062250
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64 PRIOR FILING DATE: 1998-07-07
65 PRIOR APPLICATION NUMBER: 60/091982
66 PRIOR FILING DATE: 1998-07-07
67 PRIOR APPLICATION NUMBER: 60/092182
68 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MEGATRVSTIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGRGEGEC 60
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DB 61 HPGSHKVPFFFRKRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105
RESULT 11
US-09-990-456-371
; Sequence 371, Application US/09990456
; Patent No. US20020137890A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC22
; CURRENT APPLICATION NUMBER: US/09/990,456
; CURRENT FILING DATE: 2001-11-14
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31 PRIOR FILING DATE: 1998-06-24
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63 PRIOR FILING DATE: 1998-07-07
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65 PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTSVDCAVITGACERDVQCGAGTCCATISLWLRGLRNMCTPLRGEGEC 60

DB 1 MRGATRVSIMLLLVTSVDCAVITGACERDVQCGAGTCCATISLWLRGLRNMCTPLRGEGEC 60

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RESULT 12

US-09-989-721-371
; Sequence 371, Application US/09989721
; Patent No. US20020142961A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
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; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Napier, Mary A.
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; APPLICANT: Paoni, Nicholas F.
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; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumaas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2730PIC55
; CURRENT APPLICATION NUMBER: US/09/989,721
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Query Match 100.0%; Score 589; DB 9; Length 105;

Best Local Similarity 100.0%; Pred. No. 1.4e-53;

Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 HPGSHKVPFRKRKHHHTCPLNLLCSRFPDGRYRCMDLKNINF 105

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Db 61 HPGSHKVPFRKRKHHHTCPLNLLCSRFPDGRYRCMDLKNINF 105

RESULT 13

US-992-598-371
; Sequence 371, Application US/09992598
; Patent No. US20020160384A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2730PIC20
; CURRENT APPLICATION NUMBER: US/09/992,598
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; PRIOR FILING DATE: 1998-07-07
; PRIOR APPLICATION NUMBER: 60/092182
; PRIOR FILING DATE: 1998-07-09

Query Match 100.0%; Score 589; DB 9; Length 105;
Best Local Similarity 100.0%; Pred. No. 1.4e-53;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWLRGLRMCTPLGREGEC 60
Qy 61 HPGSHKVPFFRKHKHTCPLNLLCSRFPDGRYRCSDMLKNINF 105
Db 61 HPGSHKVPFFRKHKHTCPLNLLCSRFPDGRYRCSDMLKNINF 105

Search completed: September 20, 2005, 13:13:09
Job time : 170 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: September 20, 2005, 12:42:04 ; Search time 174 Seconds
(without alignments)
309.013 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSMILLVTVSDCA.....CSRFPDGRYRCSDMLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	589	100.0	105	1 PRK1_HUMAN	P58294 homo sapien
2	588	99.8	105	2 Q8TC69	Q8tc69 homo sapien
3	545	92.5	105	1 PRK1_RAT	Q8r414 rattus norv
4	432	73.3	81	2 Q8K457	Q8k457 mus musculu
5	318	54.0	108	2 Q863H4	Q863h4 bos taurus
6	310.5	52.7	81	1 VPRA_DENPO	P25687 dendroaspis
7	298.5	50.7	96	2 Q8JFQ0	Q8jfq0 bombina max
8	298	50.6	107	1 PRK2_RAT	Q8r413 rattus norv
9	298	50.6	128	2 Q863H5	Q863h5 bos taurus
10	287.5	48.8	96	1 BV8_BOMVA	Q9pw66 bombina var
11	282.5	48.0	129	1 PRK2_HUMAN	Q9hc23 homo sapien
12	277.5	47.1	128	1 PRK2_MOUSE	Q9qcu7 mus musculu
13	277.5	47.1	128	2 Q6V8J7	Q6v8j7 rattus norv
14	274.5	46.6	96	2 Q8JFE6	Q8jfe6 bombina max
15	273.5	46.4	96	2 Q8JFX8	Q8jfx8 bombina max
16	273.5	46.4	96	2 Q8JFY1	Q8jfy1 bombina max
17	269.5	45.8	96	2 Q8JFX9	Q8jfx9 bombina max
18	269.5	45.8	96	2 Q8JFY2	Q8jfy2 bombina max
19	266.5	45.2	96	2 Q8JFY0	Q8jfy0 bombina max
20	112	19.0	96	2 Q8UUX3	Q8uux3 gallus gall
21	108.5	18.4	221	2 Q8V8J3	Q8v8j3 mus musculu
22	107.5	18.3	224	1 DKK4_HUMAN	Q9ubt3 homo sapien
23	107.5	18.3	350	1 DKK3_CHICK	Q90839 gallus gall
24	104	17.7	255	2 Q9DDA4	Q9dda4 xenopus lae
25	102	17.3	259	1 DKK2_HUMAN	Q9ubz2 homo sapien
26	101	17.1	259	1 DKK2_MOUSE	Q9gyz8 mus musculu
27	101	17.1	259	2 Q8BFW0	Q8bfw0 m mus muscu
28	101	17.1	272	1 DKK1_MOUSE	Q54908 mus musculu
29	101	17.1	272	2 Q8OUU5	Q8ouu5 mus musculu
30	100.5	17.1	171	2 Q43532	Q43532 homo sapien
31	100.5	17.1	215	2 Q8N294	Q8n294 homo sapien

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ID	PRK1_HUMAN	STANDARD;							
AC	P58234;								
DT	16-OCT-2001 (Rel. 40, Created)								
DT	16-OCT-2001 (Rel. 40, Last sequence update)								
DT	25-JAN-2005 (Rel. 46, Last annotation update)								
DE	Prokineticin 1 precursor (Endocrine-gland-derived vascular endothelial growth factor) (EG-VEGF) (Mambakine) (UNQ600/PRO1186).								
DE	growth factor) (EG-VEGF) (Mambakine) (UNQ600/PRO1186).								
GN	Name=PROK1;								
OS	Homo sapiens (Human).								
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;								
OC	Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.								
OX	NCBI_TaxID=9606;								
[1]									
RN	SEQUENCE FROM N.A.								
RP	MEDLINE=21160229; PubMed=11259612;								
RX	Li M., Bullock C.M., Knaue D.J., Ehler F.J., Zhou Q.Y.;								
RA	"Identification of two prokineticin cDNAs: recombinant proteins								
RT	potently contract gastrointestinal smooth muscle.";								
RL	Mol. Pharmacol. 59:692-698(2001).								
RN	[2]								
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RX	MEDLINE=21419730; PubMed=11528470; DOI=10.1038/35091000;								
RA	LeCouter J., Kowalski J., Foster J., Hass P., Zhang Z.,								
RA	Dillard-Telm L., Frantz G., Rangell L., DeGuzman L., Keller G.-A.,								
RA	Peale F., Gurney A., Hillan K.J., Ferrara N.;								
RT	"Identification of an angiogenic mitogen selective for endocrine gland								
RT	endothelium.";								
RL	Nature 412:877-884(2001).								
RN	[3]								
RP	SEQUENCE FROM N.A.								
RX	Fraser C.;								
RA	"Mambakine, a snake venom related endocrine hormone that controls								
RT	macrophages.";								
RL	Submitted (APR-2001) to the EMBL/GenBank/DBJ databases.								
RN	[4]								
RP	SEQUENCE FROM N.A.								
RX	MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;								
RA	Clark H.F., Gurney A.I., Abaya E., Baker K., Baldwin D., Brush J.,								
RA	Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,								
RA	Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,								
RA	Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,								
RA	Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,								
RA	Seshagiri S., Simons L., Singh J., Smith V., Stinson J., Vagts A.,								
RA	Vandlen R., Watanabe C., Wieand D., Woods K., Xie M.-H., Yansura D.,								
RA	Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,								
RA	Godowski P., Gray A.;								
RT	"The secreted protein discovery initiative (SPDI), a large-scale								
RT	effort to identify novel human secreted and transmembrane proteins: a								
RT	bioinformatics assessment.";								
RL	Genome Res. 13:2265-2270(2003).								
RN	[5]								
RP	SEQUENCE OF 20-34.								

Q9ubp4 homo sapien
Q9es33 rattus norv
Q9qun9 mus musculu
Q94907 homo sapien
Q6pvu5 oryctolagus
O57464 xenopus lae
Q6pqg1 homo sapien
Q9pwh3 brachydanio
Q8bu04 mus musculu
Q642a8 rattus norv
Q96397 chlamydomon
Q9w6d9 brachydanio
Q42890 oryctolagus
P87363 gallus gall

ALIGNMENTS

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RX PubMed=15340161; DOI=10.1110/ps.04682504;
RA Zhang Z., Henzel W.J.;
RT "Signal peptide prediction based on analysis of experimentally
RT verified cleavage sites.";
RL Protein Sci. 13:2819-2824(2004).
CC -I- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC Induces proliferation, migration and fenestration (the formation
CC of membrane discontinuities) in capillary endothelial cells
CC derived from endocrine glands. Has little or no effect on a
CC variety of other endothelial and non-endothelial cell types.
CC -I- SUBCELLULAR LOCATION: Secreted.
CC -I- TISSUE SPECIFICITY: Expressed in the steroidogenic glands, ovary,
CC testis, adrenal and placenta.
CC -I- SIMILARITY: Belongs to the prokinectin family.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL; AF333024; AAK49918.1; -.
CC EMBL; AY029225; AAK33111.1; -.
CC EMBL; AV358683; AAQ89046.1; -.
CC HSSP; P25687; IIMT.
CC Genew; HGNC:18454; PROK1.
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CC MIM; 606233; -.
CC InterPro; IPR009523; Prokinectin.
CC Pfam; PR06607; Prokinectin; 1.
CC KW Direct protein sequencing; Growth factor; Mitogen; Signal.
FT SIGNAL 1 19
FT CHAIN 20 105 Prokinectin 1.
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FT DISULFID 32 50 By similarity.
FT DISULFID 37 78 By similarity.
FT DISULFID 60 86 By similarity.
FT DISULFID 80 96 By similarity.
SQ SEQUENCE 105 AA; 11715 MW; C7E3FDE30EFB416A CRC64;

Query Match 100.0%; Score 589; DB 1; Length 105;
Best Local Similarity 100.0%; Pred No. 2.9e-52; Mismatches 0; Indels 0; Gaps 0;
Matches 105; Conservative 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEC 60

QY 61 HPGSHKVPFFRKHKHTCPLNLLCSRPPDGRYRCMDLNKINF 105
Db 61 HPGSHKVPFFRKHKHTCPLNLLCSRPPDGRYRCMDLNKINF 105

RESULT 2
Q8TC69 PRELIMINARY; PRT; 105 AA.
AC Q8TC69
DT 01-JUN-2002 (TrEMBLrel. 21, Created)
DT 01-JUN-2002 (TrEMBLrel. 21, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Prokinectin 1.
GN Names=PROK1;
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OC NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altshul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diachenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Locuelli N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Jones S.J., Marra M.A.;
RA "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
RN [2].
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Strausberg R.;
RL Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC025399; AAH25399.1; -.
DR HSSP; P25687; IIMT.
DR InterPro; IPR009523; Prokinectin.
DR Pfam; PF06607; Prokinectin; 1.
SQ SEQUENCE 105 AA; 11729 MW; E570FDE30EFB52D2 CRC64;

Query Match 99.8%; Score 588; DB 2; Length 105;
Best Local Similarity 99.8%; Pred No. 3.7e-52;
Matches 104; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEC 60
Db 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCAISLWLRGLRMCTPLGREGEC 60

QY 61 HPGSHKVPFFRKHKHTCPLNLLCSRPPDGRYRCMDLNKINF 105
Db 61 HPGSHKVPFFRKHKHTCPLNLLCSRPPDGRYRCMDLNKINF 105

RESULT 3
PRK1_RAT STANDARD; PRT; 105 AA.
ID PRK1_RAT
AC Q8R414;
DT 10-OCT-2003 (Rel. 42, Created)
DT 10-OCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Prokinectin 1 precursor (Endocrine-gland-derived vascular endothelial
DE growth factor) (EG-VEGF).
GN Name=Prok1;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OC NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
RA Masuda Y., Takatsu Y., Terao Y., Kumano S., Ishibashi Y., Suenaga M.,
RA Abe M., Fukusumi S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,
RA Inatomi N., Ohtaki T., Onda H., Fujino M.;
RT "Isolation and identification of EG-VEGF/prokinectins as cognate
RT ligands for two orphan G-protein-coupled receptors.";
RL Biochem. Biophys. Res. Commun. 293:396-402(2002).
CC -I- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC Induces proliferation, migration and fenestration (the formation
CC of membrane discontinuities) in capillary endothelial cells
CC derived from endocrine glands. Has little or no effect on a
CC variety of other endothelial and non-endothelial cell types (By
CC similarity).

```

RP	SEQUENCE.
RC	TISSUE=Venom;
RX	MEDLINE=81115818; PubMed=7461607;
RA	Joubert F.J., Strydom D.J.;
RT	"Snake venom. The amino acid sequ
RT	polylepis polylepis (black mamba)

LINE	NO.	TEXT	UNIT	QTY	UNIT PRICE	TOTAL	TAX	AMOUNT
1	1	SEQUENCE	81 AA	9192 MW	7BBE3EC6B16A8011	CRC64		

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RL Hoppe-Seyler's Z. Physiol. Chem. 361:1787-1794(1980).
RN [2]
RP CHARACTERIZATION.
RX MEDLINE=20036442; PubMed=10567694; DOI=10.1016/S0014-5793(99)01459-3;
RA Schmitz H., Pascaud P., Diochot S., Moinier D., Lazdunski M.;
RT "MITA, a black mamba toxin with a new and highly potent activity on
RL intestinal contraction.";
RL FEBS Lett. 461:183-188(1998).
RN [3]
RP STRUCTURE BY NMR.
RC TISSUE=Venom;
RX MEDLINE=98437381; PubMed=9761684; DOI=10.1006/jmbi.1998.2057;
RA Boissouvier J., Albrand J.-P., Blackledge M., Jaquinod M.,
RA Schweitz H., Lazdunski M., Marion D.;
RT "A structural homologue of colipase in black mamba venom revealed by
RL NMR floating disulphide bridge analysis.";
RL J. Mol. Biol. 283:205-219(1998).
CC -|- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC -|- SUBCELLULAR LOCATION: Secreted.
CC -|- SIMILARITY: Belongs to the prokineticin family.
DR PDB; ILMT; @=1-81.
DR InterPro: IPR009523; Prokineticin.
DR Pfam: PF06607; Prokineticin; 1.
KW 3D-structure; Direct protein sequencing; Toxin.
FT DISULFID 7 19
FT DISULFID 13 31
FT DISULFID 18 60
FT DISULFID 41 68
FT DISULFID 62 78
FT VARIANT 73 73 P -> Q (in protein A').
FT CONFLICT 18 18 C -> S (in Ref. 1).
FT CONFLICT 22 22 S -> C (in Ref. 1).
SQ SEQUENCE 81 AA; 8645 MW; 6C01368841572044 CRC64;

Query Match 52.7%; Score 310.5; DB 1; Length 81;
Best Local Similarity 62.8%; Pred. No. 4.5e-24;
Matches 49; Conservative 14; Mismatches 14; Indels 1; Gaps 1;

QY 20 AVITACERDVQCGAGTCCCAISLWRLGLRMLCTPLRGEGCHGSHKVPFFRKRK-HHTC 78
DB 1 AVITACERDLQCGKGTCCTCAVSLWIKSVRVCTPGVTSGEDCHPASHKIPFGQKQVHTC 60
QY 79 PCLPNLLCSRFPPDGRYRC 96
DB 61 PCAPNLACVOTSPKPKFC 78

RESULT 7
ID Q8JFQ0 PRELIMINARY; PRT; 96 AA.
AC Q8JFQ0
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Bv8 protein homolog 2.
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin secretions;
RX MEDLINE=22515712; PubMed=12628381; DOI=10.1016/S1096-4959(02)00284-4;
RA Lai R., Liu H., Lee W.H., Zhang Y.;
RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina
RL maxima.";
RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514(2003).
DR EMBL; AF411091; AA003822.1; -.
DR HSSP; P25687; ILMT.
DR InterPro: IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
SQ SEQUENCE 96 AA; 10198 MW; EC4EAA5EFE49B2F0 CRC64;

Query Match 50.7%; Score 298.5; DB 2; Length 96;
Best Local Similarity 53.6%; Pred. No. 8.e-23;
Matches 52; Conservative 16; Mismatches 28; Indels 1; Gaps 1;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMLCTPLRGEGEC 60
DB 1 MKCPAQIVLLVLLVIAFSGAVITGACDRDVQCGSGTCCCAASLWSNRNIRFCVPLGNNGERC 60
QY 61 HPGSHKVPFFRKRKHHTCPCLPNLLCSRFPPDGRYRC 97
DB 61 HPASHKVPYNGKRLSLCLPCKSLGTSKSGE-KFOCS 96

RESULT 8
PRK2_RAT STANDARD; PRT; 107 AA.
ID PRK2_RAT
AC Q8R413;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Prokineticin 2 precursor (PK2).
GN Name=Prok2; Synonyms=Bv8;
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=Sprague-Dawley;
RX MEDLINE=22050031; PubMed=12054613; DOI=10.1016/S0006-291X(02)00239-5;
RA Masuda Y., Takatsu Y., Terao Y., Kumano S., Ishibashi Y., Suenaga M.,
RA Abe M., Fukusumi S., Watanabe T., Shintani Y., Yamada T., Hinuma S.,
RA Inatomi N., Ohtaki T., Onda H., Fujino M.;
RT "Isolation and identification of EG-VGF/prokineticins as cognate
RL ligands for two orphan G-protein-coupled receptors.";
RL Biochem. Biophys. Res. Commun. 293:396-402(2002).
RN [2]
RP EFFECT ON CIRCADIAN LOCOMOTOR ACTIVITY.
RX MEDLINE=22024134; PubMed=12024206; DOI=10.1038/417405a;
RA Cheng M.Y., Bullock C.M., Li C., Lee A.G., Bermak J.C., Belluzzi J.,
RA Weaver D.R., Leslie F.M., Zhou Q.-Y.;
RT "Prokineticin 2 transmits the behavioural circadian rhythm of the
RL suprachiasmatic nucleus.";
RL Nature 417:405-410(2002).
CC -|- FUNCTION: May function as an output molecule from the
CC suprachiasmatic nucleus (SCN) that transmits behavioral circadian
CC rhythm. May also function locally within the SCN to synchronize
CC output. Potentially contracts gastrointestinal (GI) smooth muscle (By
CC similarity).
CC -|- SUBCELLULAR LOCATION: Secreted (By similarity).
CC -|- TISSUE SPECIFICITY: Expressed at high levels in testis and at
CC lower levels in brain, lung, ovary, spleen, thymus and uterus.
CC -|- INDUCTION: Activated by CLOCK and BMAL1 heterodimers and light;
CC inhibited by period genes (PER1, PER2 and PER3) and cryptochrome
CC genes (CRY1 and CRY2) (Probable).
CC -|- SIMILARITY: Belongs to the prokineticin family.
CC
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CC
CC EMBL; AY089984; AA09105.1; -.
CC HSSP; P25687; ILMT.
CC RGD; 620280; Bv8.
DR InterPro: IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Biological rhythms; Neuropeptide; Signal.
FT SIGNAL 1 26 Potential.
FT CHAIN 27 107 Prokineticin 2.
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FT DISULFID 33 45 By similarity.
FT DISULFID 39 57 By similarity.
FT DISULFID 44 85 By similarity.
FT DISULFID 67 93 By similarity.
FT DISULFID 87 103 By similarity.
SQ SEQUENCE 107 AA; 11594 MW; BDFP316DCB5FED0 CRC64;

Query Match
Best Local Similarity 50.6%; Score 298; DB 1; Length 107;
Matches 47; Conservative 16; Mismatches 24; Indels 0; Gaps 0;

QY 10 MLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLRGEGECHPGSHKVPF 69
DB 17 LLLTPPADAAVITGACDKDSQCGGMCACAVSIWKSIRICTPMGQVGDSCHEPLTRKVPF 76
QY 70 FRKRKHHTCPCLNLLCSRPDPGRYRC 96
DB 77 WGRWHTHTCPCLGACLRISFNRFIC 103

RESULT 9
Q863H5 PRELIMINARY; PRT; 128 AA.
AC Q863H5
* 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE Bv8/prokineticin 2-like protein.
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RX MEDLINE=22612805; PubMed=12728244; DOI=10.1038/sj.embor.embor830;
RA Kaser A., Winklmayr M., Lepperdinger G., Kreil G.;
RT "The AVIT protein family.";
RL EMBL Rep. 4:469-473(2003).
DR EMBL; AV192557; AAP31906.1; -.
DR HSP; P25687; LIMT.
DR GO; GO:0005576; C:extracellular; ISS.
DR GO; GO:0001664; F:G-protein-coupled receptor binding; ISS.
DR GO; GO:0000187; P:activation of MAPK; ISS.
DR GO; GO:0001525; P:angiogenesis; ISS.
DR GO; GO:0006916; P:anti-apoptosis; ISS.
DR GO; GO:0008283; P:cell proliferation; ISS.
DR GO; GO:0006935; P:chemotaxis; ISS.
DR GO; GO:0007204; P:cytosolic calcium ion concentration elevation; ISS.
DR GO; GO:0007186; P:G-protein coupled receptor protein signalin. . ; ISS.
DR GO; GO:0006954; P:inflammatory response; ISS.
DR GO; GO:0019233; P:perception of pain; ISS.
DR GO; GO:0045987; P:positive regulation of smooth muscle contra. . ; ISS.
DR GO; GO:0007283; P:spermatogenesis; ISS.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
SQ SEQUENCE 128 AA; 14290 MW; C22CDBDBE40483BC CRC64;

Query Match
Best Local Similarity 50.6%; Score 298; DB 2; Length 128;
Matches 54; Conservative 15; Mismatches 27; Indels 28; Gaps 2;

QY 1 MRGATRVSIMLLLV-----TVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTP 52
DB 1 MRSSRCARLLLLLLLLPPLLTTPAGDAAVITGACDRDPQCGGMCACAVSIWKSIRICTP 60
QY 53 LGREGECHPGSH-----KVPFRKRKHHTCPCLNLLCSRPDPG 92
DB 61 MGKVGDSCHPWTRKNHFGNGRQERKRKRKKKVPPLGRMHHTCPCLGLACSTSFN 120
QY 93 RYFC 96
|||

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Db 121 RYTC 124

RESULT 10
BV8_BOMVA STANDARD; PRT; 96 AA.
ID BV8_BOMVA
AC Q9PW66;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DE Protein Bv8 precursor.
OS Bombina variegata (Yellow-bellied toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=8348;
RN [1]
RP SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.
RC TISSUE=Skin secretion;
RX MEDLINE=99349621; PubMed=10422759; DOI=10.1016/S0014-2999(99)00229-0;
RA Mollay C., Wechselberger C., Mignogna G., Negri L., Melchiorri P.,
RA Barra D., Kreil G.;
RT "Bv8, a small protein from frog skin and its homologue from snake
venom induce hyperalgesia in rats.";
RL Bur. J. Pharmacol. 374:189-196(1999).
CC -|- FUNCTION: Potently contract gastrointestinal (GI) smooth muscle.
CC -|- Induces hyperalgesia.
CC -|- SUBCELLULAR LOCATION: Secreted.
CC -|- SIMILARITY: Belongs to the prokineticin family.
CC -----
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CC -----
DR EMBL; AF168790; AAD45816.1; -.
DR HSP; P25687; LIMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Direct protein sequencing; Signal.
FT SIGNAL 1 19 Protein Bv8.
FT CHAIN 20 96 By similarity.
FT DISULFID 26 38 By similarity.
FT DISULFID 32 50 By similarity.
FT DISULFID 37 78 By similarity.
FT DISULFID 60 86 By similarity.
FT DISULFID 80 95 By similarity.
SQ SEQUENCE 96 AA; 10102 MW; A12490A7437609B4 CRC64;

Query Match
Best Local Similarity 48.8%; Score 287.5; DB 1; Length 96;
Matches 49; Conservative 18; Mismatches 29; Indels 1; Gaps 1;

QY 1 MRGATRVSIMLLLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGRLMCTPLGRGEEC 60
DB 1 MKCFAQIVVLLLVIAFSGHGVITGACDKDVQCGSGTCCCAASASNRNIRFCIFLNGSGDC 60
|||
QY 61 HPGSHKVPFRKRKHHTCPCLNLLCSRPDPGRYRC 97
DB 61 HPASHKVPYDGRKRLSSLCPCSKGLTCKSGE-KFKCS 96

RESULT 11
PRK2_HUMAN STANDARD; PRT; 129 AA.
ID PRK2_HUMAN
AC Q9HC23;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 25-JAN-2005 (Rel. 46, Last annotation update)
DE Prokineticin 2 precursor (PK2) (protein Bv8 homolog).
GN Name=PROK2; Synonyms=BV8;

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QY 67 -----VPPFRKRKHHTCPCLPNLLCSRFPDGRYRC 96
DB 77 ANGRQERRAKRRKRKEVPPFWRGRRHHTCPCLPGLACLRTSPNRFIC 124

RESULT 14
ID Q8JFE6 PRELIMINARY; PRT; 96 AA.
AC Q8JFE6;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
DE BM8-a protein precursor [Bv8 protein homolog 1].
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi.
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.;
RT "Granular gland transcriptomes in stimulated amphibian skin
secretions.";
RL J. Biochem. 371:125-130(2003).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin secretions;
RX MEDLINE=22515712; PubMed=12628381; DOI=10.1016/S1096-4959(02)00294-4;
RA Lai R., Liu H., Lee W.H., Zhang Y.;
RT "Two novel Bv8-like peptides from skin secretions of the toad Bombina
maxima.";
RL Comp. Biochem. Physiol. B, Biochem. Mol. Biol. 134:509-514(2003).
DR EMBL; AJ440230; CAD29340.1; -.
DR EMBL; AF411090; AAN03821.1; -.
DR HSSP; P25687; IIMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Signal.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 96 BM8-a protein.
SQ SEQUENCE 96 AA; 10117 MW; 2269AAC8654B18A6 CRC64;

Query Match 46.6%; Score 274.5; DB 2; Length 96;
Best Local Similarity 49.5%; Pred. No. 2.4e-20;
Matches 48; Conservative 17; Mismatches 31; Indels 1; Gaps 1;

QY 1 MRGATRVSMILLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60
DB 1 MKCFAQIVVLLVIAFSGHAVITGVCDRDAQCQSGTGCCAAAFSRNIRFCVPLGNNGEC 60
QY 61 HPGSHKVPFPRKRKHHTCPCLPNLLCSRFPDGRYCS 97
DB 61 HPASHKVPYNGKRLSLCPCNTGLTCSKSGE-KFQCS 96

RESULT 15
ID Q8JFX8 PRELIMINARY; PRT; 96 AA.
AC Q8JFX8;
DT 01-OCT-2002 (TrEMBLrel. 22, Created)
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE BM8-f protein precursor.
OS Bombina maxima (Giant fire-bellied toad) (Chinese red belly toad).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Archeobatrachia; Bombinatoridae; Bombina.
OX NCBI_TaxID=161274;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Skin;
RA Chen T., Farragher S., Bjourson A.J., Orr D.F., Rao P., Shaw C.;
RT "Granular gland transcriptomes in stimulated amphibian skin
secretions.";
```

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RL J. Biochem. 371:125-130(2003).
DR EMBL; AJ440235; CAD29345.1; -.
DR HSSP; P25687; IIMT.
DR InterPro; IPR009523; Prokineticin.
DR Pfam; PF06607; Prokineticin; 1.
KW Signal.
FT SIGNAL 1 19 Potential.
FT CHAIN 20 96 BM8-f protein.
SQ SEQUENCE 96 AA; 10058 MW; 2269A070FFE118A6 CRC64;

Query Match 46.4%; Score 273.5; DB 2; Length 96;
Best Local Similarity 50.5%; Pred. No. 3.1e-20;
Matches 49; Conservative 15; Mismatches 32; Indels 1; Gaps 1;

QY 1 MRGATRVSMILLVTVSDCAVITGACERDVQCGAGTCCCAISLWRLGLRMCTPLGREGEC 60
DB 1 MKCFAQIVVLLVIAFSGHAVITGVCDRDAQCQSGTGCCAAAFSRNIRFCVPLGNNGEC 60
QY 61 HPGSHKVPFPRKRKHHTCPCLPNLLCSRFPDGRYCS 97
DB 61 HPASHKVPDGRKRLSLCPCNTGLTCSKSGE-KYQCS 96

Search completed: September 20, 2005, 12:58:58
Job time : 176 secs
```


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OM protein - protein search, using sw model

Run on: September 20, 2005, 12:43:34 ; Search time 39 Seconds
(without alignments)
259.045 Million cell updates/sec

Title: US-10-692-299-2

Perfect score: 589

Sequence: 1 MRGATRVSMILLVTVSDCA.....CSRFPDGRVRCSDMLKNINF 105

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

PIR 79:*

1: pir1:*

2: pir2:*

3: pir3:*

4: pir4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100.5	17.1	350	2 JC7188	REIC protein - hum
2	88.5	15.0	640	2 T08179	LRG5 protein - chl
3	83	14.1	1101	2 T16840	hypothetical prote
4	81	13.8	1964	2 T09059	notch4 - mouse
5	79	13.4	112	1 XLHU	colipase precursor
6	77.5	13.2	473	2 A56175	adhesive plaque pr
7	77	13.1	251	2 A55035	cysteine-rich prot
8	75.5	12.8	1574	2 T13954	MEGF6 protein - ra
9	75	12.7	734	2 JC4861	fertilin beta cha
10	75	12.7	2318	2 S45306	notch 3 protein -
11	75	12.7	2531	2 T31070	notch homolog - se
12	74	12.6	112	2 T51909	colipase precursor
13	74	12.6	1620	2 T27283	hypothetical prote
14	73	12.4	461	1 A35356	tumor necrosis fac
15	73	12.4	3075	2 S14458	laminin alpha-1 ch
16	72.5	12.3	643	2 T25473	hypothetical prote
17	72.5	12.3	2871	2 A55567	fibrillin I - bovi
18	72.5	12.3	3002	2 A47221	fibrillin I precu
19	72	12.2	1639	1 MMFPB2	laminin gamma-1 ch
20	71.5	12.1	591	2 I48141	acroggranin - guine
21	71.5	12.1	601	2 B36346	fibulin 1 precursor
22	71.5	12.1	683	2 C36346	fibulin 1 precursor
23	71.5	12.1	1178	1 A39804	thrombospondin pre
24	71.5	12.1	1854	2 T13576	hypothetical prote
25	71	12.1	286	2 S34665	collagen, cuticula
26	71	12.1	593	1 GYHU	granulin precursor
27	70.5	12.0	1847	2 T18308	probable vitellog
28	70.5	12.0	2871	2 A55624	fibrillin-1 precu
29	69.5	11.8	802	2 T24293	hypothetical prote

30	69.5	11.8	949	2 T24294	hypothetical prote
31	69.5	11.8	2352	2 T30201	Notch homolog prot
32	69.5	11.8	4545	1 S25111	alpha-2-macroglobu
33	69	11.7	2918	2 A54105	fibrillin-2 precu
34	69	11.7	3133	2 S52093	hemocytin - silkw
35	69	11.7	3712	2 S18253	laminin alpha-1 ch
36	68.5	11.6	728	2 T50719	C-Delta-1 - chicke
37	68.5	11.6	850	2 T14450	serine/threonine k
38	68.5	11.6	884	2 T18649	hypothetical prote
39	68.5	11.6	1172	2 A42587	thrombospondin 2 p
40	68.5	11.6	1376	2 G00043	osteonidogen - hum
41	68	11.5	112	2 A46717	colipase precursor
42	68	11.5	345	2 T25138	hypothetical prote
43	68	11.5	358	2 T25137	hypothetical prote
44	68	11.5	427	1 GQHUN	nerve growth facto
45	68	11.5	547	2 A33901	mannosyl-oligosacc

ALIGNMENTS

RESULT 1

JC7188

REIC protein - human

C;Species: Homo sapiens (man)

C;Date: 04-Mar-2000 #sequence_revision 04-Mar-2000 #text_change 11-May-2000

C;Accession: JC7188

R;Teugi, T.; Miyazaki, M.; Sakaguchi, M.; Inoue, Y.; Namba, M.

Biochem. Biophys. Res. Commun. 268, 20-24, 2000

A;Title: A REIC gene shows down-regulation in human immortalized cells and human tumor-de

A;Reference number: JC7188; MUID:20119095; PMID:10652205

A;Accession: JC7188

A;Molecule type: mRNA

A;Residues: 1-350 <TSU>

A;Cross-references: DDBJ:AB034203

A;Experimental source: heart

C;Comment: This protein is a secreted glycoprotein for head induction in amphibian embryo

C;Genetics:

A;Gene: reic

C;Superfamily: human REIC protein

C;Keywords: cardiac muscle; coiled coil; glycoprotein; heart; tumor

Query Match 17.1%; Score 100.5; DB 2; Length 350;

Best Local Similarity 37.7%; Pred. No. 0.0089;

Matches 26; Conservative 3; Mismatches 29; Indels 11; Gaps 4;

QY 26 CERDVCGAGTCCATSLWRLGL--RMCTPLIGREGECCH-PGSHKVPFFRKRH-----HT 77

Db 208 CONQRDCQFLCCLCAFO---RGLLPVCTPLPVEGELCHDPASRLDLITWELEPFGALDR 264

QY 78 CPCPLNLLC 86

Db 265 CPCASGLLC 273

RESULT 2

T08179

LRG5 protein - Chlamydomonas reinhardtii

C;Species: Chlamydomonas reinhardtii

C;Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004

C;Accession: T08179

R;Gloeckner, G.; Beck, C.F.

submitted to the EMBL Data Library, October 1996

A;Description: Molecular characterization of a gene (LRG5) involved in blue light signal

A;Reference number: Z16399

A;Accession: T08179

A;Status: preliminary; translated from GB/EMBL/DDBJ

A;Molecule type: mRNA

A;Residues: 1-640 <GLO>

A;Cross-references: UNIPROT:Q96397; EMBL:U73817; NID:g1644369; PID:g1644370

C;Genetics:

A;Gene: LRG5

```
Query Match          15.0%; Score 88.5; DB 2; Length 640;
Best Local Similarity 31.4%; Pred. No. 0.24; Indels 23; Gaps 4;
Matches 24; Conservative 5; Mismatches 23; Indels 23; Gaps 4;

QY 32 CGAGTCCATSLWLRLMCTPLRGEGECPGSHKVPFFRKRRKHHTCPCLPNLLCSRF-- 89
Db 488 CTAGRC---WM---TCLPMWGGGTWPRPLMTF-----SRTCACLTPTCCSRWLR 533

QY 90 -----PDGRYRCSM 98
Db 534 RWRGWAPOGGRWRCSL 549

RESULT 3
T16840
hypothetical protein T10E10.4 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004
C:Accession: T16840
R:Geisels, C.
submitted to the EMBL Data Library, October 1995
A:Description: The sequence of C. elegans cosmid T10E10.
A:Reference number: Z18588
A:Accession: T16840
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1101 <GE1>
A:Cross-references: UNIPROT:Q22378; EMBL:U39644; NID:g1049339; PID:g1049343; PIDN:AAA803
A:Experimental source: strain Bristol N2
C:Genetics:
A:Gene: CESP:T10E10.4
A:Introns: 93/2; 152/2; 191/3; 209/2; 283/3; 303/1; 399/3; 421/1; 440/1; 465/1; 547/3; 7
Query Match          14.1%; Score 83; DB 2; Length 1101;
Best Local Similarity 24.4%; Pred. No. 1.3;
Matches 32; Conservative 9; Mismatches 40; Indels 50; Gaps 6;

QY 13 LVTVDCAVITGACERDVQCGAGTCCATSLWLRLG----- 46
Db 749 LMSVQRCAMGIG-CPPGNQCEGCVCCPMPMCSSGSIASSVCGMANSCPIGYICEGRGCCL 807

QY 47 --LRMCTPLGR-----EGECPHG-----SHKVPFFRKRRKHHTCPCLPNLLCS 87
Db 808 EPLPLCPNGRASMRCYRGACETPGYCTPLGGCCLLSMEPVCPTRSNAVCQCSNNVC- 866

QY 88 RFPDGRYRCSM 98
Db 867 --PSGA-SCTM 874

RESULT 4
T09059
notch4 - mouse
C:Species: Mus musculus (house mouse)
C:Date: 11-Jun-1999 #sequence_revision 11-Jun-1999 #text_change 09-Jul-2004
C:Accession: T09059
R:Rowen, L.; Mahairas, G.; Qin, S.; Ahearn, M.B.; Dankers, C.; Lasky, S.; Loretz, C.; So
submitted to the EMBL Data Library, October 1997
A:Description: Sequence of the mouse major histocompatibility locus class III region.
A:Reference number: Z16543
A:Accession: T09059
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-1964 <ROW>
A:Cross-references: UNIPROT:P31695; EMBL:AF030001; NID:g2564945; PID:g2564947
C:Genetics:
A:Gene: notch4
A:Map position: 17
A:Introns: 22/1; 49/2; 148/1; 264/1; 305/1; 384/1; 436/1; 501/1; 539/1; 577/1; 618/1; 67
1679/3; 1729/1; 1761/3
C:Keywords: notch protein; ankyrin repeat homology; EGF homology
A:Suprafamily: notch receptor; signal transduction
F:514-545/Domain: EGF homology <EGF>
```

```
Query Match          13.8%; Score 81; DB 2; Length 1964;
Best Local Similarity 30.4%; Pred. No. 3.4; Indels 26; Gaps 5;
Matches 24; Conservative 7; Mismatches 22; Indels 26; Gaps 5;

QY 26 CERDVQ-----CGAGTCCATSLWLRLMCTPLRGEGECPGSHKVPFFRKRRKH 76
Db 188 CERDINECFLEPGCPQGTSCHTNL---GSYQCLCFVQEGEQC-----KLRKG 233

QY 77 TCP---CLPNLLCSRFPDG 92
Db 234 ACPGSGCLNGGTQQLVPEG 252
```

RESULT 5

```
XLHU
colipase precursor [validated] - human
N:Alternate names: procolipase
C:Species: Homo sapiens (man)
C:Date: 04-Dec-1986 #sequence_revision 19-May-1995 #text_change 09-Jul-2004
C:Accession: A42568; A33949; A03163
R:Sims, H.F.; Lowe, M.E.
Biochemistry 31, 7120-7125, 1992
A:Title: The human colipase gene: isolation, chromosomal location, and tissue-specific ex
A:Reference number: A42568; MUID:92353041; PMID:1643046
A:Accession: A42568
A:Molecule type: DNA
A:Residues: 1-112 <SIM>
A:Cross-references: UNIPROT:P04118; GB:M95529; NID:g180842; PIDN:AAB05818.1; PID:g1483624
A:Note: sequence extracted from NCBI backbone (NCBIN:110576, NCBIN:110578, NCBI:110580)
R:Lowe, M.E.; Rosenblum, J.L.; McEwen, P.; Strauss, A.W.
Biochemistry 29, 823-828, 1990
A:Title: Cloning and characterization of the human colipase cDNA.
A:Reference number: A33949; MUID:90248429; PMID:2337598
A:Accession: A33949
A:Molecule type: mRNA
A:Residues: 1-112 <LOW>
A:Cross-references: GB:J02883; NID:g180885; PIDN:AAA52054.1; PID:g180886
A:Note: evidence of partial N-glycosylation, possibly at Asn-43
R:Sternby, B.; Engstrom, A.; Hellman, U.; Vihernt, A.M.; Sternby, N.H.; Borgstrom, B.
Biochim. Biophys. Acta 784, 75-80, 1984
A:Title: The primary sequence of human pancreatic colipase.
A:Reference number: A90652; MUID:84104937; PMID:6691986
A:Accession: A03163
A:Molecule type: protein
A:Residues: 23-108 <STE>
C:Comment: Colipase, a cofactor of triacylglycerol lipase (EC 3.1.1.3), forms a 1:1 stoic
se the enzyme is washed off by bile salts, which are known to have an inhibitory effect c
C:Genetics:
A:Gene: GDB:CLPS
A:Cross-references: GDB:127277; OMIM:120105
A:Map position: 6pter-6p21.1
A:Introns: 28/3; 69/3
C:Superfamily: colipase
C:Keywords: lipid digestion; lipid hydrolysis; pancreas
F:1-17/Domain: signal sequence #status predicted <SIG>
F:18-22/Domain: amino-terminal propeptide #status predicted <APP>
F:23-108/Product: colipase #status experimental <NAI>
F:109-112/Domain: carboxyl-terminal propeptide #status predicted <CPP>
F:34-104,40-56,44-80,45-78,66-86/Disulfide bonds: #status predicted
F:69,72,75,76/Binding site: micellar substrate (Lys, Tyr, Tyr) #status predicted

Query Match          13.4%; Score 79; DB 1; Length 112;
Best Local Similarity 28.4%; Pred. No. 0.5;
Matches 31; Conservative 9; Mismatches 45; Indels 24; Gaps 6;

QY 9 IMLLVTVSDCAVITG-----ACERDVQCGAGTCCATSLWLRLMCTPLGR 56
Db 5 LILLVALSVAAAPGPGIINLENGELCMNSAQ-CNSCCOHSSAL-GLARCTSMASE 62

QY 57 GBECPGSHKVPFFRKRRKHHTCPCLPNLLCSRFPDGRYRCSDMLKNINF 105
Db 63 NSEC---SVKTLV---GIYKPCPCERGLTC----EGDKTIVGSITNTNF 101
```

RESULT 6

A56175

adhesive plaque protein Mgfp2 precursor - Mediterranean mussel

C:Species: Mytilus galloprovincialis (Mediterranean mussel)

C>Date: 27-Apr-1995 #sequence_revision 03-Oct-1995 #text_change 09-Jul-2004

C:Accession: A56175

R:Inoue, K.; Takeuchi, Y.; Miki, D.; Odo, S.

J. Biol. Chem. 270, 6698-6701, 1995

A:Title: Mussel adhesive plaque protein gene is a novel member of epidermal growth factor

A:Reference number: A56175; MUID:95204464; PMID:7896812

A:Accession: A56175

A:Molecule type: mRNA

A:Residues: 1-473 <NO>

A:Cross-references: UNIPROT:Q25464; GB:D43794; NID:G602767; PIDN:BAA07852.1; PID:dl00843

C:Keywords: duplication

F:1-17/Domain: signal sequence #status predicted <SIG>

F:387-419/Domain: EGF homology <EGF>

F:429-460/Domain: EGF homology <EGF>

F:23,36,43,56,75,382,424,455,468,473/Modified site: 3',4'-dihydroxyphenylalanine (Tyr) #

Query Match 13.2%; Score 77.5; DB 2; Length 473;

Best Local Similarity 31.2%; Pred. No. 2.4;

Matches 24; Conservative 11; Mismatches 23; Indels 19; Gaps 7;

QY 26 CERDVOGAGTCCAISLWLRGLRMLCTPLGREGECH-FGSHKVPFRRKRKHTC---PCL 81

DB 117 CEKNV-CSPNPC-----KNGKCSPLGKTGYKTCSSGYTGP---RCEVHACKPNPCK 165

QY 82 PNLLCSRFPPDGR--YRC 96

DB 166 NKGRC--FPDGKTGYKC 180

RESULT 7

A55035

cysteine-rich protein CRP1 - earthworm (Enchytraeus buchholzi)

C:Species: Enchytraeus buchholzi

C>Date: 14-Nov-1994 #sequence_revision 03-Nov-1995 #text_change 09-Jul-2004

C:Accession: A55035

R:Willuhn, J.; Schmitt-Wrede, H.P.; Greven, H.; Wunderlich, F.

J. Biol. Chem. 269, 24688-24691, 1994

A:Title: CDNA cloning of a cadmium-inducible mRNA encoding a novel cysteine-rich, non-m

A:Reference number: A55035; MUID:95014230; PMID:7929141

A:Accession: A55035

A>Status: preliminary

A:Molecule type: mRNA

A:Residues: 1-251 <WIL>

A:Cross-references: UNIPROT:Q24774; EMBL:X79344; NID:G488802; PIDN:CAA55899.1; PID:g4888

C:Superfamily: ultra-high-sulfur keratin

Query Match 13.1%; Score 77; DB 2; Length 251;

Best Local Similarity 30.9%; Pred. No. 1.6;

Matches 25; Conservative 7; Mismatches 45; Indels 4; Gaps 3;

QY 17 SDCAVITGACRDVQCGAGTCCAISLWLRGLRMLCTPLGREGECHPGSHKVPFRRKRKHH 76

DB 77 SQCKRGECKG--CKEG--CCAPKGVAGCSGSGCKRGECKPGCTKRCCTGTCGVE 133

QY 77 TCPCLPNLLCSRFPPDGRYRCS 97

DB 134 DCPGSPCKCEK-GDCKVNC 153

RESULT 8

T13954

MEGF6 protein - rat

C:Species: Rattus norvegicus (Norway rat)

C>Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 09-Jul-2004

C:Accession: T13954

R:Nakayama, M.; Nakajima, D.; Nagase, T.; Nomura, N.; Seki, N.; Ohara, O.

Genomics 51, 27-34, 1998

A;Residues: 1-2318 <LAR>
A;Cross-references: UNIPROT:Q61982; EMBL:X74760; NID:g483580; PIDN:CAA52776.1; PID:g483580
C;Superfamily: notch protein; ankyrin repeat homology; EGF homology
F;163-195/Domain: EGF homology <EGF1>
F;474-505/Domain: EGF homology <EGF2>
F;854-885/Domain: EGF homology <EGF2>
F;1839-1871/Domain: ankyrin repeat homology <AN1>
F;1872-1904/Domain: ankyrin repeat homology <AN2>
F;1906-1938/Domain: ankyrin repeat homology <AN3>
F;1939-1971/Domain: ankyrin repeat homology <AN4>
F;1972-2004/Domain: ankyrin repeat homology <AN5>

Query Match 12.7%; Score 75; DB 2; Length 2318;
Best Local Similarity 28.1%; Pred. No. 16; Mismatches 25; Indels 34; Gaps 5;
Matches 25; Conservative 5

QY 19 CAVITGACERDVQCGAGTCAISLWLRGLRMCTPLGREGSEC-----60
Db 1287 CERVARS-RELQCPVGPICQQT--ARGPRCACPPGLSGPSCRASPSGATNASCASA 1343

QY 61 ---HPSG----HKVPFRKRKHHTCPCLP 82
Db 1344 PCLHGGSCLPVQSVPPFR-----CVCAP 1366

RESULT 11
T31070
notch homolog - sea urchin (*Lytechinus variegatus*)
C;Species: *Lytechinus variegatus* (variegated urchin)
C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change 31-Jan-2000
C;Accession: T31070
R;Sherwood, D.R.; McClay, D.R.
Development 124, 3363-3374, 1997
A;Title: Identification and localization of a sea urchin Notch homologue: insights into
A;Reference number: Z20966; MUID:97454256; PMID:9310331
A;Accession: T31070
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-2531 <SHE>
A;Cross-references: EMBL:AF00634; NID:Q2570350; PID:G2570351; PIDN:AA82088.1
C;Superfamily: notch protein; ankyrin repeat homology; EGF homology

Query Match 12.7%; Score 75; DB 2; Length 2531;
Best Local Similarity 29.9%; Pred. No. 17; Mismatches 32; Indels 14; Gaps 5;
Matches 23; Conservative 8

QY 22 ITGACERDVQCGAGTCCAI--SLWLRGLRMCTPLGREGSECHPGSHKVPFRKRKHHTCP 79
Db 120 VDNVCKLEPCQGGTCLRTSLMDYEC-FCITP-ANTGENCTDDNHCV-----SNP 168

QY 80 CLPNLLCSRFPDGRYRC 96
Db 169 CLNGAVCTSSSDG-YSC 184

RESULT 12
I51909
colipase precursor - rat
N;Alternate names: procolipase
C;Species: *Rattus norvegicus* (Norway rat)
C;Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 09-Jul-2004
C;Accession: I51909; A34623
R;Payne, R.M.; Sims, H.F.; Jennens, M.L.; Lowe, M.E.
Am. J. Physiol. 266, G914-G921, 1994
A;Title: Rat pancreatic lipase and two related proteins: enzymatic properties and mRNA
A;Reference number: I51909; MUID:94262798; PMID:8203536
A;Accession: I51909
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: mRNA
A;Residues: 1-112 <PAY>
A;Cross-references: UNIPROT:P17084; GB:M58370; NID:g203504; PIDN:AAA20505.1; PID:g203505
R;Wicker, C.; Puigserver, A.
Biochem. Biophys. Res. Commun. 167, 130-136, 1990

A;Title: Rat pancreatic colipase mRNA: nucleotide sequence of a cDNA clone and nutrition
A;Reference number: A34623; MUID:90179738; PMID:2129524
A;Accession: A34623
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-17, 'V', 19-112 <WIC>
A;Cross-references: GB:M33333; NID:g203502; PIDN:AAA40943.1; PID:g203503
C;Superfamily: colipase
C;Keywords: lipid digestion; lipid hydrolysis; pancreas
F;1-17/Domain: signal sequence #status predicted <SIG>
F;18-112/Product: colipase #status predicted <MAT>

Query Match 12.6%; Score 74; DB 2; Length 112;
Best Local Similarity 25.8%; Pred. No. 1.6; Mismatches 10; Indels 20; Gaps 4;
Matches 24; Conservative 10

QY 6 RVSIMLLLVTVGSDCAVITG-----ACERDVQCGAGTCCCAISLWLRGLRMCTPL 53
Db 2 KVLVLLVTLVAVAAPGPRGLFINLEDEGICVNSMQC-KSRCCQHDITL-GIARCTHK 59

QY 54 GREGECHPGSHKVPFRKRKHHTCPCLPNLLC 86
Db 60 AMENSECSPKTLGIYYR-----CPCERGLTC 86

RESULT 13
T27283
hypothetical protein Y64G10A.f - *Caenorhabditis elegans*
C;Species: *Caenorhabditis elegans*
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C;Accession: T27283
R;Ainscough, R.
submitted to the EMBL Data Library, September 1999
A;Reference number: Z20336
A;Accession: T27283
A;Status: preliminary; translated from GB/EMBL/DBJ
A;Molecule type: DNA
A;Residues: 1-1620 <WIL>
A;Cross-references: EMBL:AL110498; NID:e1542303; PIDN:CAB54471.1; CESP:Y64G10A.f
A;Experimental source: clone Y64G10A
C;Genetics:
A;Gene: CESP:Y64G10A.f
A;Introns: 77/1; 116/1; 198/1; 282/1; 365/1; 425/1; 466/1; 548/1; 559/1; 601/1; 625/1; 71

Query Match 12.6%; Score 74; DB 2; Length 1620;
Best Local Similarity 27.5%; Pred. No. 15; Mismatches 4; Indels 38; Gaps 4;
Matches 22; Conservative 4

QY 16 VSDCAVITGACERDVQCGAG-----TCCCAISLWLRGLRMCTPLGREGECHPGSHKVP 68
Db 1114 VARCDHVTGEC-----RCPAGWTGPDCTSC-----PLGRHGECC-----1148

QY 69 FFRKRKHHTCPCLPNLLCSR 88
Db 1149 -----RHSCQCSNGASCDCR 1162

RESULT 14
A35356
tumor necrosis factor receptor 2 precursor [validated] - human
N;Alternate names: 75K tumor necrosis factor receptor; TNF receptor type 2
C;Species: *Homo sapiens* (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A35356; A34475; A48416; A36607; A23666; B35010; I38094
R;Smith, C.A.; Davis, T.; Anderson, D.; Solam, L.; Beckmann, M.P.; Jerzy, R.; Dower, S.K.
Science 248, 1019-1023, 1990
A;Title: A receptor for tumor necrosis factor defines an unusual family of cellular and
A;Reference number: A35356; MUID:90260639; PMID:2160731
A;Accession: A35356
A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-461 <SMI>
A;Cross-references: UNIPROT:P20333; GB:M32315; NID:g189185; PIDN:AAA59929.1; PID:g189186

Query Match	12.4%	Score 73;	DB 1;	Length 461;
Best Local Similarity	29.5%	Pred. No. 6.6;		

